



Borough of Macclesfield.

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# REPORT

ON THE

Health of Macclesfield,

*FOR THE YEAR 1908.*

BY

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**MEDICAL OFFICER OF HEALTH.**

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Fred Wood Printer, Macclesfield.

# Borough of Macclesfield.

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The following 19 members of the Town Council constitute the Health Committee :—

Chairman—Mr. Alderman Pickford.

The Mayor.

Mr. Alderman Bradley.

„ Brocklehurst

„ Crew.

„ Cross.

„ Mellor.

Mr. Councillor Bailey.

„ Beard.

„ W. R. Brown.

„ Cooper.

„ Crew.

„ Potts.

„ Eaton.

„ Frost.

„ Harding,

„ Massey.

„ Sheldon.

„ Wardle.

There are three Sub-Committees :—

Sewage Works : Chairman, Alderman Cross.

Hospitals : „ Councillor Bailey.

Cleansing : „ Alderman Bradley.

# ANNUAL REPORT

OF THE

## Medical Officer of Health

For the Year ending December 31st, 1908.

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*To the Mayor and Members of the  
Macclesfield Town Council.*

MR. MAYOR AND GENTLEMEN,

I beg to submit for your consideration, my Tenth Annual Report on the Health and Sanitary Administration of the Borough of Macclesfield.

### GEOLOGY OF THE TOWN.

The soil is variable to the West and North-west, sand and gravel lying on boulder clay alternate, the sand predominating. In the centre of the town there are two to five feet of coarse gravel on clay. On the Easterly side there is brick clay on sand and gravel; and to the South, boulder clay.

The natural drainage of the town runs roughly East and West, and is effected by the River Bollin which has as tributaries the Daybrook, draining the easterly or Hurdsfield side, and the Dams Brook, draining the westerly side or Broken Cross area.

The elevation of the town is between 400 and 500 feet above sea level. The rain gauge in the West Park being 501 feet above sea level and the Market Place about 500 feet.

## POPULATION.

The population at the last census in 1901 was given as 34,624, made up of the then three registration areas, viz. :—

|                         |        |
|-------------------------|--------|
| West Macclesfield.....  | 17,297 |
| East Macclesfield ..... | 12,440 |
| Sutton.....             | 4,887  |

|                                  |        |
|----------------------------------|--------|
| Total population of Borough..... | 34,624 |
|----------------------------------|--------|

In 1904 I estimated that this figure had fallen to 34,380, and I fear that the decline has still continued and that the next census will show that we are below 34,000.

In addition, our population contains an excess of females above that which prevails in the country generally. In 1901, the census gave 15,377 males and 19,246 females; a deficit of over 3,000 males.

## DENSITY OF THE TOWN.

The density of population is 10·8 persons to the acre. In the centre of the town the density increases to 180 persons to the acre. The extension of the Borough into the surrounding country accounts for the apparent low density on the whole town. Some system of tramways seems badly needed to open up these sparsely-populated, semi-rural areas, and thereby encourage the natural expansion of the town within its own borders.

PRINCIPAL VITAL STATISTICS FOR YEAR  
ENDING DECEMBER 31st, 1908.

|                                          | Year 1908. |     | Year 1907. |
|------------------------------------------|------------|-----|------------|
| Population .....                         | 34,624     | ... | 34,624     |
| Births .....                             | 737        | ... | 704        |
| Birth Rate per 1,000 of Population ..... | 21·2       | ... | 20·8       |
| Deaths.....                              | 576        | ... | 583        |
| Death Rate per 1,000 of population ..... | 16·6       | ... | 16·8       |
| Excess of Births over Deaths.....        | 161        | ... | 124        |
| Infantile Mortality Rate .....           | 127        | ... | 120        |
| Zymotic Death Rate .....                 | 1·0        | ... | 0·7        |

I submit for comparison some figures from the other Non-County Cheshire Boroughs for 1908.

|                   | Birth-rate. |     | Death-rate. |     | Infantile Mor-<br>tality-rate. |     | Zymotic<br>Death-rate. |
|-------------------|-------------|-----|-------------|-----|--------------------------------|-----|------------------------|
| Congleton.....    | 26·6        | ... | 16·9        | ... | 129                            | ... | 1·2                    |
| Crewe .....       | 24·6        | ... | 11·0        | ... | 103                            | ... | 1·1                    |
| Dukinfield.....   | 25·0        | ... | 16·9        | ... | 214                            | ... | 2·3                    |
| Hyde.....         | 23·9        | ... | 15·0        | ... | 169                            | ... | 1·1                    |
| Stalybridge ..... | 23·1        | ... | 19·2        | ... | 219                            | ... | 2·0                    |
| MACCLESFIELD      | 21·2        | ... | 16·6        | ... | 137                            | ... | 1·0                    |

We have the lowest Birth-rate, the third lowest general Death-rate and Infantile Mortality, and the lowest Zymotic Death-rate.

## BIRTHS AND BIRTH-RATES.

Total number of Births registered—737.

| District.    | Boys.       |               | GIRLS.      |               | Total. |
|--------------|-------------|---------------|-------------|---------------|--------|
|              | Legitimate. | Illegitimate. | Legitimate. | Illegitimate. |        |
| West         |             |               |             |               |        |
| Macclesfield | 169         | 14            | 149         | 12            | 344    |
| East         |             |               |             |               |        |
| Macclesfield | 130         | 6             | 138         | 8             | 382    |
| Sutton       | 47          | 5             | 56          | 3             | 111    |
| The Borough  | 346         | 25            | 343         | 23            | 737    |

|                                         |      |
|-----------------------------------------|------|
| Birth-rate per 1,000 of population..... | 21·2 |
| "    "    "    1907.....                | 20·8 |
| Birth-rate England and Wales .....      | 26·5 |

The following Table shows the Birth Rates 1874, with quinquennial averages for last twenty years.

| Years. | Birth-rate. | Years. | Birth-rate. | Years. | Birth-rate. |
|--------|-------------|--------|-------------|--------|-------------|
| 1874   | 33·5        | 1885   | 29·8        | 1897   | 27·1        |
| 1875   | 35·2        | 1886   | 28·9        | 1898   | 26·4        |
| 1876   | 35·2        | 1887   | 28·2        | 1899   | 24·6        |
| 1877   | 34·3        | 1888   | 25·8        | 1900   | 23·6        |
| 1878   | 31·9        | 1889   | 26·2        | 1901   | 22·2        |
| 1879   | 34·7        | 1890   | 27·0        | 1902   | 21·4        |
| 1880   | 31·4        | 1891   | 28·0        | 1903   | 25·1        |
| 1881   | 31·4        | 1892   | 27·4        | 1904   | 22·6        |
| 1882   | 32·1        | 1893   | 25·0        | 1905   | 21·6        |
| 1883   | 28·6        | 1894   | 28·2        | 1906   | 22·0        |
| 1884   | 31·4        | 1895   | 25·4        | 1907   | 20·8        |
|        |             | 1896   | 26·8        | 1908   | 21·2        |

## ILLEGITIMATE BIRTH RATE.

48 births were registered as illegitimate. This gives a rate of 1·3 per 1,000 of population, or 6·5 per cent. born as compared with 6·2 last year. The rate for the country generally being 4·5 per cent of births.

The large proportion of illegitimate births in West Macclesfield is accounted, to a certain extent, by the presence

therein of the Workhouse, to which place some of the prospective mothers resort for their confinement. The Registrar for West Macclesfield points out in his weekly returns that two illegitimate births in the Workhouse were of strangers from the town, two of inhabitants of East Macclesfield, and one of an inhabitant of Sutton: yet, when these are allowed for, the number of illegitimate births accredited to West Macclesfield is excessive, reaching 6·1 per cent. born, against 4·5 for the whole of England and Wales.

#### DISTRICT BIRTH-RATE.

| District.             | Population. | Birth-rate.<br>1908. | Birth-rate.<br>1907. | Birth-rate.<br>1906. | Birth-rate.<br>1905. |
|-----------------------|-------------|----------------------|----------------------|----------------------|----------------------|
| West Macclesfield...  | 16,500 ...  | 20·8 ...             | 19·0 ...             | 21·7 ...             | 21·0                 |
| East Macclesfield ... | 12,440 ...  | 22·6 ...             | 23·2 ...             | 22·4 ...             | 22·0                 |
| Sutton .....          | 4,887 ...   | 22·7 ...             | 18·6 ...             | 25·3 ...             | 23·0                 |

The population of West Macclesfield is approximately correct, a deduction having been made for the inmates of the Workhouse and Asylum.

#### NUMBER OF BIRTHS DURING LAST 19 YEARS.

| Year. | West Macclesfield. | East Macclesfield<br>and Hurdsfield. | Sutton.. |
|-------|--------------------|--------------------------------------|----------|
| 1890  | 462                | 374                                  | 177      |
| 1891  | 374                | 177                                  | 159      |
| 1892  | 437                | 408                                  | 144      |
| 1893  | 427                | 372                                  | 136      |
| 1894  | 471                | 380                                  | 166      |
| 1895  | 433                | 350                                  | 112      |
| 1896  | 441                | 374                                  | 149      |
| 1897  | 472                | 378                                  | 127      |
| 1898  | 422                | 383                                  | 148      |
| 1899  | 417                | 431                                  | 128      |
| 1900  | 429                | 305                                  | 119      |
| 1901  | 365                | 283                                  | 123      |
| 1902  | 350                | 300                                  | 92       |
| 1903  | 399                | 357                                  | 114      |
| 1904  | 380                | 284                                  | 120      |
| 1905  | 350                | 286                                  | 116      |
| 1906  | 359                | 279                                  | 124      |
| 1907  | 315                | 298                                  | 91       |
| 1908  | 344                | 282                                  | 111      |

## DEATHS AND DEATH-RATES.

|                                           |      |
|-------------------------------------------|------|
| Death-rate for the Borough for 1908 ..... | 16·6 |
| „ „ „ 1907 .....                          | 16·8 |
| „ „ England & Wales 1908 .....            | 14·7 |
| „ „ 76 Great Towns 1908 .....             | 15·8 |

675 deaths have been registered in the Borough in 1908; this number includes the deaths of 99 people not belonging to the Borough, who have died in one or other of our public Institutions. Deducting these, we have a total number of deaths of persons belonging to the Borough of 576, which corresponds to an annual mortality rate of 16·6 per 1,000 of inhabitants.

DEATH-RATES SINCE THE YEAR 1874, WITH  
FIVE YEARLY AVERAGES.

| Years. | Death-rate. | Years. | Death-rate. | Years. | Death-rate. |
|--------|-------------|--------|-------------|--------|-------------|
| 1874   | 26·6        | 1885   | 20·4        | 1897   | 20·3        |
| 1875   | 25·0        | 1886   | 20·0        | 1898   | 18·5        |
| 1876   | 28·1        | 1887   | 23·8        | 1899   | 20·4        |
| 1877   | 20·2        | 1888   | 18·3        | 1900   | 19·6        |
| 1878   | 23·8        | 1889   | 21·0        | 1901   | 18·5        |
| 1879   | 23·2        | 1890   | 21·9        | 1902   | 15·1        |
| 1880   | 21·7        | 1891   | 20·8        | 1903   | 17·3        |
| 1881   | 23·6        | 1892   | 25·1        | 1904   | 20·1        |
| 1882   | 23·0        | 1893   | 20·6        | 1905   | 18·1        |
| 1883   | 23·6        | 1894   | 17·7        | 1906   | 17·0        |
| 1884   | 22·0        | 1895   | 22·5        | 1907   | 16·8        |
|        |             | 1896   | 20·0        | 1908   | 16·6        |

Our death-rate is too high for a small country town, but it is partly accounted for by the larger number of deaths of old people. Many young persons leave the town, especially the men, in search of employment, and this increases the proportion of old people whose mortality-rate is necessarily high.

## PRINCIPAL DEATH-RATES FOR LAST FIVE YEARS.

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| Year.                                   | 1908 | 1907 | 1906 | 1905 | 1904 |
|-----------------------------------------|------|------|------|------|------|
| Zymotic death-rate.....                 | 1·0  | 0·7  | 1·5  | 1·6  | 2·3  |
| Phthisis (Consumption).....             | 1·3  | 1·4  | 1·4  | 1·1  | 1·3  |
| Other forms of Tuberculosis .....       | 0·7  | 0·4  | 0·5  | 0·7  | 0·8  |
| Respiratory(Bronchitis,Pneumonia,&c.)   | 1·9  | 2·6  | 2·3  | 2·6  | 3·1  |
| Infantile Mortality (per 1,000 born)... | 127  | 120  | 123  | 149  | 178  |
| Cancer death-rate .....                 | 1·2  | 1·1  | 1·0  | 1·5  | 1·0  |

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## QUINQUENNIAL AVERAGES.

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|                                   |      |
|-----------------------------------|------|
| Zymotic death-rate .....          | 1·42 |
| Phthisis death-rate .....         | 1·30 |
| Other forms of Tuberculosis ..... | 0·62 |
| Respiratory death-rate .....      | 2·5  |
| Infantile Mortality-rate.....     | 139· |
| Cancer death-rate .....           | 1·16 |

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None of our principal mortality-rates show improvement, and the stationary character of our death-rate from Consumption is a matter which ought to receive more attention from the Sanitary Authority than it has done in the past.

I continue to call attention to this matter year after year, yet nothing is done and no steps are taken by the Local Authority to check the ravages of tuberculosis.

## GAIN AND LOSS.

The following table shows some of the diseases in which we have gained or lost during the year.

| LIFE—LOSS.           |    | LIFE—GAIN.           |    |
|----------------------|----|----------------------|----|
| Influenza .....      | 10 | Whooping Cough ..... | 13 |
| Diphtheria .....     | 4  | Phthisis .....       | 5  |
| Measles.....         | 19 | Bronchitis .....     | 10 |
| Heart Diseases ..... | 19 | Pneumonia.....       | 15 |

Our loss from Measles is really very considerable and should be met by some more active preventive measures than we have hitherto attempted. The deaths are chiefly amongst young children under five years of age, and if we can shield a child from measles till it has turned five years of age, its chance of dying from the disease, even if it acquires it, is much reduced.

I next submit the table showing the number of deaths of inhabitants of the town during the year 1908, and this is followed by a table showing the same figures for 1907 for purposes of comparison.

## DEATHS IN MACCLESFIELD.

Year ending December 31st, 1908.

| Diseases                                     | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total. |
|----------------------------------------------|----------------|-----|------|-------|-------|------------|--------|
| Diphtheria .....                             | 2              | ... | 5    | ...   | 1     | ...        | ...    |
| Membranous Croup }                           |                |     |      |       |       |            |        |
| Typhus Fever ...                             | ...            | ... | ...  | 1     | 2     | ...        | 3      |
| Typhoid Fever .....                          |                |     |      |       |       |            |        |
| Influenza .....                              | ...            | 1   | ...  | 1     | 5     | 6          | 13     |
| Erysipelas .....                             | ...            | ... | ...  | ...   | 1     | ...        | 1      |
| Other Septic Diseases                        | ...            | ... | 1    | ...   | ...   | ...        | 1      |
| Measles ..                                   | 7              | 12  | ...  | ...   | ...   | ...        | 19     |
| Whooping Cough .....                         | ...            | 1   | ...  | ...   | ...   | ...        | 1      |
| Diarrhœa .....                               | 4              | ... | ...  | ...   | 1     | ...        | 5      |
| Enteritis .....                              | 2              | 1   | ...  | ...   | ...   | ...        | 3      |
| Rheumatic Fever .....                        | ...            | ... | ...  | ...   | 4     | ...        | 4      |
| Bright's Disease .....                       | ...            | ... | 1    | ...   | 17    | 4          | 22     |
| Pulmonary Tuberculosis                       | ...            | 1   | ...  | 8     | 36    | 1          | 46     |
| Bronchitis .....                             | 10             | 3   | 1    | 2     | 14    | 7          | 37     |
| Pneumonia .....                              | 5              | 11  | ...  | 4     | 5     | 1          | 26     |
| Pleurisy .....                               | ...            | ... | ...  | ...   | 1     | ...        | 1      |
| Other Respiratory<br>Diseases .....          | ...            | ... | ...  | ...   | 2     | ...        | 2      |
| Alcoholish & Cirrhosis<br>of Liver .....     | ...            | ... | ...  | ...   | 9     | 1          | 10     |
| Heart Disease .....                          | 1              | 1   | ...  | 2     | 47    | 30         | 81     |
| Suicide ...                                  | ...            | ... | ...  | 2     | 4     | ...        | 6      |
| Injuries .....                               | ...            | 1   | 1    | 1     | 3     | 4          | 10     |
| Veneral Diseases ...                         | 6              | ... | ...  | ...   | ...   | ...        | 6      |
| Cancer ..                                    | ...            | ... | ...  | ...   | 28    | 15         | 43     |
| Convulsions .....                            | 15             | 2   | 1    | 1     | 2     | ...        | 21     |
| Apoplexy .....                               | ...            | ... | ...  | ...   | 21    | 15         | 36     |
| Insanity .....                               | ...            | ... | ...  | ...   | 4     | ...        | 4      |
| Other Brain Diseases                         | ...            | 1   | 1    | ...   | 4     | ...        | 6      |
| Diseases & Accidents of<br>Parturition ..... | ...            | ... | ...  | 2     | 1     | ...        | 3      |
| Premature Births .....                       | 21             | ... | ...  | ...   | ...   | ...        | 21     |
| Marasmus ...                                 | 8              | 2   | ...  | ...   | ...   | ...        | 10     |
| Atrophy (Senile) .....                       | ...            | ... | ...  | ...   | 1     | 56         | 57     |
| Tabes Mesenterica ...                        | 1              | 1   | 1    | ...   | ...   | ...        | 3      |
| Tubercular Meningitis                        | 4              | 2   | 3    | ...   | 1     | ...        | 10     |
| Tuberculosis .....                           | 1              | 5   | 2    | 3     | 1     | 2          | 14     |
| All other diseases .....                     | 7              | 1   | 4    | 5     | 18    | 8          | 43     |
| Totals .....                                 | 94             | 51  | 17   | 32    | 232   | 150        | 576    |

## DEATHS IN MACCLESFIELD.

Year ending December 31st, 1907.

| Diseases                                       | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total. |
|------------------------------------------------|----------------|-----|------|-------|-------|------------|--------|
| Scarlatina ... ..                              | ...            | 3   | ...  | ...   | ...   | ...        | 3      |
| Diphtheria.....                                | ...            | 4   | ...  | ...   | ...   | ...        | 4      |
| Typhoid Fever .....                            | ...            | ... | 1    | 1     | 1     | ...        | 3      |
| Influenza .. ..                                | ...            | ... | ...  | 1     | 2     | ...        | 3      |
| Whooping Cough... ..                           | 4              | 10  | ...  | ...   | ...   | ...        | 14     |
| Diarrhœa .....                                 | 2              | ... | ...  | ...   | ...   | ...        | 2      |
| Enteritis .....                                | 2              | ... | ...  | ...   | ...   | ...        | 2      |
| Bright's Disease .....                         | ...            | 2   | ...  | ...   | 18    | 5          | 25     |
| Pulmonary Tuberculosis                         | ...            | ... | 1    | 9     | 39    | 2          | 51     |
| Bronchitis.....                                | 7              | 5   | ...  | ...   | 16    | 19         | 47     |
| Pneumonia .....                                | 6              | 9   | 2    | 2     | 14    | 8          | 41     |
| Other Respiratory<br>Diseases... ..            | 1              | ... | ...  | ...   | 2     | 2          | 5      |
| Alcoeol and Cirrhosis<br>of Liver .....        | ...            | ... | ...  | ...   | 9     | ...        | 9      |
| Heart Disease .....                            | 1              | ... | 1    | 1     | 29    | 30         | 62     |
| Suicide .....                                  | ...            | ... | ...  | 1     | 2     | 1          | 4      |
| Injuries .....                                 | ...            | 1   | 1    | ...   | 5     | 3          | 10     |
| Veneral Diseases .....                         | 7              | ... | ...  | ...   | 1     | ...        | 8      |
| Cancer .....                                   | ...            | 1   | ...  | ...   | 22    | 16         | 39     |
| Convulsions .....                              | 14             | 1   | ...  | ...   | 2     | ...        | 17     |
| Apoplexy .....                                 | ...            | ... | ...  | 1     | 22    | 21         | 44     |
| Insanity.....                                  | ...            | ... | ...  | ...   | 3     | ...        | 3      |
| Other Brain Deseases                           | ...            | ... | 2    | ...   | 1     | 3          | 6      |
| Diseases and Accidents<br>of Parturition ..... | 2              | ... | ...  | ...   | ...   | ...        | 2      |
| Premature Birth .....                          | 24             | ... | ...  | ...   | ...   | ...        | 24     |
| Marasmus .....                                 | 4              | 1   | ...  | ...   | ...   | ...        | 5      |
| Atrophy (Senile) .....                         | ...            | ... | ...  | ...   | ...   | 83         | 83     |
| Tabes Mesenterica ...                          | 2              | ... | 1    | ...   | ...   | ...        | 3      |
| Tubercular Meningitis                          | 1              | 4   | ...  | ...   | ...   | ...        | 5      |
| Tuberculosis .....                             | 1              | 1   | ...  | ...   | 4     | ...        | 6      |
| All other Diseases.....                        | 7              | 3   | 3    | 5     | 22    | 11         | 51     |
| Totals .....                                   | 85             | 44  | 12   | 21    | 214   | 204        | 580    |

## QUARTERLY DEATH RETURNS.

1908.

|                        | 1st.<br>Quarter | 2nd,<br>Quarter | 3rd.<br>Quarter | 4th.<br>Quarter | Year |
|------------------------|-----------------|-----------------|-----------------|-----------------|------|
| West Macclesfield..... | 82 ...          | 73 ...          | 48 ...          | 90 ...          | 293  |
| East Macclesfield..... | 50 ...          | 35 ...          | 52 ...          | 73 ...          | 210  |
| Sutton .....           | 25 ...          | 13 ...          | 16 ...          | 19 ...          | 73   |
| Totals.....            | 157             | 121             | 116             | 182             | 576  |
| Last year .....        | 162             | 142             | 129             | 147             | 580  |

The figures closely follow one another in each successive quarter, the slight gain in the first three quarters is lost in the last quarter, and this is mainly due to the mortality from Measles. On the whole the death rate was fairly stationary. The first and last quarters of the year, as usual, having the heaviest mortality.

I submit now the usual tables showing the deaths distributed into the various quarters in detail.

DEATHS OF PERSONS BELONGING TO  
WEST MACCLESFIELD.

Quarter ending March, 1908.

| Diseases                                       | Under |     |      |       | Over  |     |    | Total |
|------------------------------------------------|-------|-----|------|-------|-------|-----|----|-------|
|                                                | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65  |    |       |
| Diphtheria .....                               | ...   | 1   | ...  | ...   | ...   | ... | 1  |       |
| Influenza .....                                | ...   | ... | ...  | 1     | 2     | 2   | 5  |       |
| Other Septic Diseases                          | ...   | ... | 1    | ...   | ...   | ... | 1  |       |
| Bright's Disease .....                         | ...   | ... | ...  | ...   | 3     | ... | 3  |       |
| Pulmonary Tuberculosis                         | ...   | ... | ...  | 2     | 5     | ... | 7  |       |
| Bronchitis .....                               | 1     | 1   | 1    | ..    | 5     | ... | 8  |       |
| Pneumonia .....                                | 2     | 3   | ...  | 1     | 1     | 1   | 8  |       |
| Other Respiratory Dis-<br>eases .....          | ...   | ... | ...  | ...   | 1     | ..  | 1  |       |
| Alcoholish & Cirrhosis<br>of Liver.....        | ...   | ... | ...  | ...   | 1     | ... | 1  |       |
| Heart Disease .....                            | 1     | 1   | ...  | ...   | 9     | 6   | 17 |       |
| Injuries.. .....                               | ...   | ... | ...  | 1     | 1     | ... | 2  |       |
| Venereal Diseases.....                         | 1     | ... | ...  | ...   | ...   | ... | 1  |       |
| Cancer .....                                   | ...   | ..  | ...  | ...   | 3     | 1   | 4  |       |
| Convulsions .....                              | 2     | 1   | ...  | ...   | ...   | ... | 3  |       |
| Apoplexy .....                                 | ...   | ... | ...  | ...   | 6     | 2   | 8  |       |
| Other Brain Diseases                           | ...   | ... | 1    | ...   | ...   | ... | 1  |       |
| Diseases and Accidents<br>of Parturition ..... | ...   | ... | ...  | 1     | ...   | ... | 1  |       |
| Premature Birth .....                          | 2     | ... | ...  | ...   | ...   | ..  | 2  |       |
| Atrophy (Senile) .....                         | ...   | ... | ...  | ...   | ...   | 4   | 4  |       |
| Tubercular Meningitis                          | ...   | ... | 1    | ...   | ...   | ... | 1  |       |
| All other diseases.....                        | ...   | ... | ...  | 1     | 2     | ... | 3  |       |
| Totals .....                                   | 9     | 7   | 4    | 7     | 39    | 16  | 82 |       |

DEATHS OF PERSONS BELONGING TO  
WEST MACCLESFIELD.

Quarter ending June, 1908.

| Diseases.                               | Under |     |      |       |       | Over |    | Total |
|-----------------------------------------|-------|-----|------|-------|-------|------|----|-------|
|                                         | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |    |       |
| Influenza .....                         | ...   | ... | ...  | ...   | 1     | 2    | 3  |       |
| Whooping Cough ...                      | ...   | 1   | ...  | ...   | ...   | ...  | 1  |       |
| Rheumatic Fever.....                    | ...   | ... | ...  | ...   | 2     | ...  | 2  |       |
| Pulmonary Tuberculosis                  | ..    | ... | ...  | ...   | 5     | 1    | 6  |       |
| Bronchitis.....                         | 3     | ... | ...  | ...   | 1     | 2    | 6  |       |
| Pneumonia .....                         | ...   | ... | ...  | ...   | 1     | ...  | 1  |       |
| Alcoholish & Cirrhosis<br>of Liver..... | ...   | ... | ...  | ...   | 2     | ...  | 2  |       |
| Heart Disease .....                     | ...   | ... | ...  | ...   | 4     | 2    | 6  |       |
| Suicide .....                           | ...   | ... | ...  | ...   | 1     | ...  | 1  |       |
| Injuries .....                          | ...   | 1   | ...  | ...   | ...   | ...  | 1  |       |
| Cancer .....                            | ...   | ... | ...  | ...   | 3     | 6    | 9  |       |
| Convulsions .....                       | 1     | ... | ...  | ...   | ...   | ...  | 1  |       |
| Apoplexy .....                          | ...   | ... | ...  | ...   | 2     | 1    | 3  |       |
| Insanity.....                           | ...   | ... | ...  | ...   | 2     | ...  | 2  |       |
| Other Brain Diseases                    | ...   | ... | ...  | ...   | 1     | ...  | 1  |       |
| Premature Birth .....                   | 1     | ... | ..   | ...   | ...   | ...  | 1  |       |
| Marasmus .....                          | ...   | 1   | ...  | ...   | ...   | ...  | 1  |       |
| Atrophy (Senile).....                   | ...   | ... | ...  | ...   | ...   | 11   | 11 |       |
| Tabes Mesenterica ..                    | ...   | 1   | ...  | ...   | ...   | ..   | 1  |       |
| Tubercular Meningitis                   | 1     | ... | 1    | ...   | ...   | ...  | 2  |       |
| Tubercolsis .....                       | ...   | 1   | 1    | 2     | 1     | ...  | 5  |       |
| All other diseases ...                  | ...   | ... | 1    | ...   | 4     | 2    | 7  |       |
| Totals .....                            | 6     | 5   | 3    | 2     | 30    | 27   | 73 |       |

## DEATHS IN WEST MACCLESFIELD.

Quarter ending September, 1908.

| Diseases.                                | Under |     |      |       |       | Over |     | Total |
|------------------------------------------|-------|-----|------|-------|-------|------|-----|-------|
|                                          | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |     |       |
| Diphtheria.....                          | ...   | ... | 1    | ...   | ...   | ...  | ... | 1     |
| Diarrhoea .....                          | 1     | ... | ...  | ...   | ...   | ...  | ... | 1     |
| Bright's Disease .....                   | ...   | ... | ...  | ...   | 4     | ...  | ... | 4     |
| Pulmonary Tuberculosis                   | ...   | ... | ...  | ...   | 6     | ...  | ... | 6     |
| Bronchitis.....                          | ...   | ... | ...  | ...   | 25    | ...  | 1   | 3     |
| Alcoholish & Cirrhosis<br>of Liver ..... | ...   | ... | ...  | ...   | 5     | ...  | 5   | 10    |
| Injuries .....                           | ...   | ... | ...  | ...   | ...   | ...  | 1   | 1     |
| Venereal Diseases ...                    | 1     | ... | ...  | ...   | 1     | ...  | ... | 1     |
| Cancer .....                             | ...   | ... | ...  | ...   | 1     | ...  | ... | 1     |
| Convulsions .....                        | 4     | ... | ...  | ...   | ...   | ...  | ... | 4     |
| Premature Birth.....                     | 4     | ... | ...  | ...   | ...   | ...  | ... | 4     |
| Atrophy (Senile).....                    | ...   | ... | ...  | ...   | ...   | ...  | 7   | 7     |
| Tuberculosis.....                        | ...   | ... | ...  | ...   | ...   | ...  | 1   | 1     |
| All other diseases ...                   | ...   | ... | 1    | ...   | 2     | ...  | ... | 3     |
| Totals .....                             | 10    | ... | 2    | ...   | 21    | ...  | 15  | 48    |

## DEATHS IN WEST MACCLESFIELD.

Quarter ending December, 1908.

| Diseases               | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total |
|------------------------|----------------|-----|------|-------|-------|------------|-------|
| Diphtheria .....       | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Typhoid Fever .....    | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Influenza .....        | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Measles .....          | 3              | 4   | ...  | ...   | ...   | ...        | 7     |
| Diarrhœa .....         | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Enteritis .....        | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Rheumatic Fever .....  | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Bright's Disease ..... | ...            | ... | ...  | ...   | 1     | 1          | 2     |
| Pulmonary Tuberculosis | ...            | ... | ...  | 1     | 3     | ...        | 4     |
| Bronchitis .....       | 1              | 1   | ...  | ...   | 2     | 1          | 5     |
| Pneumonia .....        | 2              | 3   | ...  | 2     | 3     | ...        | 10    |
| Heart Disease .....    | ...            | ... | ...  | ...   | 7     | 6          | 13    |
| Injuries .....         | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Cancer .....           | ...            | ... | ...  | ...   | 6     | 5          | 11    |
| Convulsions .....      | 1              | ... | ...  | ...   | 1     | ...        | 2     |
| Apoplexy .....         | ...            | ... | ...  | ...   | 7     | 4          | 11    |
| Other Brain Diseases   | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Premature Birth .....  | 2              | ... | ...  | ...   | ...   | ...        | 2     |
| Marasmus .....         | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Atrophy (Senile) ..... | ...            | ... | ...  | ...   | 1     | 6          | 7     |
| Tubercular Meningitis  | 2              | 1   | 1    | ...   | ...   | ...        | 4     |
| Tuberculosis .....     | ...            | 1   | 1    | 1     | ...   | ...        | 3     |
| Totals .....           | 14             | 12  | 2    | 4     | 35    | 23         | 90    |

## DEATHS IN EAST MACCLESFIELD.

Quarter ending March, 1908.

| Diseases.              | Under |     |      |       |       |     | Over |    | Total |
|------------------------|-------|-----|------|-------|-------|-----|------|----|-------|
|                        | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65  |      |    |       |
| Diphtheria .....       | ...   | 2   | ...  | ...   | ...   | ... | ...  | 2  |       |
| Influenza .....        | ...   | 1   | ...  | ...   | ...   | ... | 1    | 2  |       |
| Bright's Disease ..... | ...   | ... | ...  | ...   | 1     | ... | ...  | 1  |       |
| Pulmonary Tuberculosis | ...   | ... | ...  | 1     | 5     | ... | ...  | 6  |       |
| Bronchitis.....        | ...   | ... | ...  | ...   | 1     | ... | 1    | 2  |       |
| Pleurisy.....          | ...   | ... | ...  | ...   | 1     | ... | ...  | 1  |       |
| Heart Disease .....    | ...   | ... | ...  | ...   | 7     | ... | 2    | 9  |       |
| Injuries .....         | ...   | ... | ...  | ...   | ...   | ... | 1    | 1  |       |
| Cancer .....           | ...   | ... | ...  | ...   | 1     | ... | ...  | 1  |       |
| Apoplexy .....         | ...   | ... | ...  | ...   | 1     | ... | 1    | 2  |       |
| Insanity .....         | ...   | ... | ...  | ...   | 1     | ... | ...  | 1  |       |
| Other Brain Diseases   | ...   | ... | ...  | ...   | 1     | ... | ...  | 1  |       |
| Premature Birth ... .. | 3     | ... | ...  | ...   | ...   | ... | ...  | 3  |       |
| Marasmus.....          | 3     | ... | ...  | ...   | ...   | ... | ...  | 3  |       |
| Atrophy (Senile) ..... | ...   | ... | ...  | ...   | ...   | 5   | ...  | 5  |       |
| Tabes Mesenterica ...  | ...   | ... | 1    | ...   | ...   | ... | ...  | 1  |       |
| Tuberculosis.....      | ...   | 1   | ...  | ...   | ...   | ... | 1    | 2  |       |
| All other diseases ... | 1     | 1   | ...  | 1     | 3     | ... | 1    | 7  |       |
| Totals .....           | 7     | 5   | 1    | 2     | 22    | 13  | ...  | 50 |       |

## DEATHS IN EAST MACCLESFIELD.

Quarter ending June, 1907.

| Diseases.                                       | Under |     |      |       |       | Over |    | Total. |
|-------------------------------------------------|-------|-----|------|-------|-------|------|----|--------|
|                                                 | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |    |        |
| Diphtheria .....                                | 1     | ... | ...  | ...   | ...   | ...  | 1  |        |
| Typhoid Fever .....                             | ...   | ... | ...  | 1     | ...   | ...  | 1  |        |
| Influenza .....                                 | ...   | ... | ...  | ...   | 1     | ...  | 1  |        |
| Diarrhœa .....                                  | ...   | ... | ...  | ...   | 1     | ...  | 1  |        |
| Bright's Disease .....                          | ...   | ... | ...  | ...   | 1     | 1    | 2  |        |
| Pulmonary Tuberculosis                          | ...   | ... | ...  | ...   | 5     | ...  | 5  |        |
| Alcoholish & Cirrhosis<br>of Liver.....         | ...   | ... | ..   | ...   | 1     | ...  | 1  |        |
| Heart Disease .....                             | ...   | ... | ...  | ...   | 1     | 1    | 2  |        |
| Suicide .....                                   | ...   | ... | ...  | 1     | ...   | ...  | 1  |        |
| Injuries .....                                  | ...   | ... | ...  | ...   | 1     | ...  | 1  |        |
| Cancer .....                                    | ...   | ... | ...  | ...   | 3     | ...  | 3  |        |
| Convulsions .....                               | 1     | ... | ...  | ...   | ...   | ...  | 1  |        |
| Apoplexy .....                                  | ...   | ... | ...  | ...   | ...   | 1    | 1  |        |
| Diseases and accidents<br>of Parturition .. ... | ...   | ... | ...  | ...   | 1     | ...  | 1  |        |
| Premature Birth .. ...                          | 3     | ... | ...  | ...   | ...   | ...  | 3  |        |
| Marasmus .....                                  | 1     | ... | ...  | ...   | ...   | ...  | 1  |        |
| Atrophy (Senile) .....                          | ...   | ... | ...  | ...   | ...   | 2    | 2  |        |
| Tuberculosis .....                              | ...   | 1   | ...  | ...   | ...   | ...  | 1  |        |
| All other Diseases ...                          | 1     | ... | ...  | 1     | 2     | 2    | 6  |        |
| Totals .....                                    | 7     | 1   | ...  | 3     | 17    | 7    | 35 |        |

## DEATHS IN EAST MACCLESFIELD.

Quarter ending September, 1908.

| Diseases                                | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total |
|-----------------------------------------|----------------|-----|------|-------|-------|------------|-------|
| Diphtheria .....                        | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Bright's Disease .....                  | ...            | ... | ...  | ...   | 2     | 1          | 3     |
| Pulmonary Tuberculosis ..               | 1              | ... | ...  | 1     | 5     | ...        | 7     |
| Other Respiratory Dis-<br>eases .....   | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Alcoholish & Cirrhosis<br>of Liver..... | ...            | ... | ...  | ...   | 2     | ...        | 2     |
| Heart Disease .....                     | ...            | ... | ...  | 1     | 9     | 2          | 12    |
| Injuries .....                          | ...            | ... | 1    | ...   | ...   | 1          | 2     |
| Venereal Diseases ...                   | 3              | ... | ...  | ...   | ...   | ...        | 3     |
| Cancer .....                            | ...            | ... | ...  | ...   | 2     | 1          | 3     |
| Convulsions .....                       | 2              | 1   | ...  | 1     | 1     | ...        | 5     |
| Insanity.....                           | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Premature Birth .....                   | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Marasmus.....                           | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Atrophy (Senile).....                   | ...            | ... | ...  | ...   | ...   | 3          | 3     |
| Tuberculosis.....                       | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| All other diseases ...                  | 2              | ... | 2    | ...   | 1     | 1          | 6     |
| Totals .....                            | 9              | 4   | 3    | 3     | 24    | 9          | 52    |

## DEATHS IN EAST MACCLESFIELD.

Quarter ending December, 1908.

| Diseases.              | Under |     |      |       |       | Over |     | Total |
|------------------------|-------|-----|------|-------|-------|------|-----|-------|
|                        | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |     |       |
| Erysipelas.....        | ...   | ... | ...  | ..    | 1     | ...  | ... | 1     |
| Measles .....          | 4 ..  | 8   | ...  | ...   | ...   | ...  | ... | 12    |
| Diarrhoea .....        | 1     | ... | ..   | ...   | ...   | ...  | ... | 1     |
| Enteritis .....        | 2     | ... | ...  | ...   | ...   | ...  | ... | 2     |
| Rheumatic Fever.....   | ...   | ... | ...  | ...   | 1     | ...  | ... | 1     |
| Bright's Disease ..... | ...   | ... | ...  | ...   | 1     | ...  | ... | 1     |
| Pulmonary Tuberculosis | ...   | ... | ...  | 1     | 1     | ...  | ... | 2     |
| Bronchitis.....        | 4     | 1   | ...  | ...   | 2     | ...  | 1   | 8     |
| Pneumonia .....        | 1     | 4   | ...  | ...   | ...   | ...  | ... | 5     |
| Alcoholish & Cirrhosis | ...   | ... | ...  | ...   | 2     | ...  | ... | 2     |
| Heart Disease .....    | ...   | ... | ...  | 1     | 2     | ...  | 3   | 6     |
| Suicide .....          | ...   | ... | ...  | 1     | 2     | ...  | ... | 3     |
| Cancer .....           | ...   | ... | ...  | ...   | 2     | ...  | 1   | 3     |
| Convulsions .....      | 3     | ... | ...  | ...   | ...   | ...  | ... | 3     |
| Apoplexy .....         | ...   | ... | ...  | ...   | 2     | ...  | ... | 2     |
| Other Brain Diseases   | ...   | ... | ...  | ...   | 1     | ...  | ... | 1     |
| Premature Birth .....  | 1     | ... | ...  | ...   | ...   | ...  | ... | 1     |
| Marasmus.....          | 3     | ... | ...  | ...   | ...   | ...  | ... | 3     |
| Atrophy (Senile) ..... | ...   | ... | ...  | ...   | ...   | ...  | 8   | 8     |
| All other diseases ... | 3     | ... | ...  | 1     | 2     | ...  | 2   | 8     |
| Totals .....           | 22    | 13  | ...  | 4     | 19    | ...  | 15  | 73    |

DEATHS IN SUTTON.  
Quarter ending March, 1908.

| Diseases                                     | Under |      |      |       |       | Over |    | Total |
|----------------------------------------------|-------|------|------|-------|-------|------|----|-------|
|                                              | 1 yr. | 1-5  | 5-15 | 15-25 | 25-65 | 65   |    |       |
| Typhoid Fever.....                           | ...   | ...  | ...  | ...   | 1 ..  | ...  | 1  |       |
| Influenza .....                              | ...   | ...  | ...  | ...   | ...   | 1 .. | 1  |       |
| Bright's Disease .....                       | ...   | ...  | 1 .. | ...   | 1 ..  | ...  | 2  |       |
| Pulmonary Tuberculosis                       | ...   | ...  | ...  | 2 ..  | ...   | ...  | 2  |       |
| Bronchitis.....                              | 1 ..  | ...  | ...  | 2 ..  | ...   | ...  | 3  |       |
| Pneumonia .....                              | ...   | ...  | ...  | 1 ..  | ...   | ...  | 1  |       |
| Alcoholish & Cirrhosis<br>of Liver. ....     | ...   | ...  | ...  | ...   | ...   | 1 .. | 1  |       |
| Heart Disease .....                          | ...   | ...  | ...  | ...   | 1 ..  | ...  | 1  |       |
| Cancer .....                                 | ...   | ...  | ...  | ...   | 4 ..  | ...  | 4  |       |
| Convulsions .....                            | 1 ..  | ...  | ...  | ...   | ...   | ...  | 1  |       |
| Apoplexy .....                               | ...   | ...  | ...  | ...   | 1 ..  | ...  | 1  |       |
| Diseases & Accidents<br>of Parturition ..... | ...   | ...  | ...  | 1 ..  | ...   | ...  | 1  |       |
| Atrophy (Senile) .....                       | ...   | ...  | ...  | ...   | ...   | 4 .. | 4  |       |
| Tubercular Meningitis                        | 1 ..  | ...  | ...  | ...   | ...   | ...  | 1  |       |
| Totals .....                                 | 3 ..  | 1 .. | 1 .. | 6 ..  | 8 ..  | 6 .. | 25 |       |

## DEATHS IN SUTTON.

Quarter ending June, 1908.

| Diseases.                | Under |     |      |       |       | Over |     | Total. |    |
|--------------------------|-------|-----|------|-------|-------|------|-----|--------|----|
|                          | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |     |        |    |
| Bright's Disease .....   | ...   | ... | ...  | ...   | 1     | ..   | ... | 1      |    |
| Bronchitis .....         | ...   | ... | ...  | ...   | 1     | ...  | ... | 1      |    |
| Pneumonia .....          | ...   | 1   | ...  | ...   | ...   | ...  | ... | 1      |    |
| Suicide .....            | ...   | ... | ...  | ...   | 1     | ...  | ... | 1      |    |
| Veneral Diseases .....   | 1     | ... | ...  | ...   | ...   | ...  | ... | 1      |    |
| Apoplexy .....           | ...   | ... | ...  | ...   | ...   | 1    | ... | 1      |    |
| Premature Birth .....    | 3     | ..  | ...  | ...   | ...   | ...  | ... | 3      |    |
| Atrophy (Senile) .....   | ...   | ... | ...  | ...   | ...   | 2    | ... | 2      |    |
| Tuberculosis .....       | ...   | 1   | ...  | ...   | ...   | ...  | ... | 1      |    |
| All other diseases ..... | ...   | ... | ...  | ...   | 1     | ...  | ... | 1      |    |
| Totals .....             | 4     | ... | 2    | ...   | ...   | 4    | ... | 3      | 13 |

## DEATHS IN SUTTON.

Quarter ending September, 1908.

| Diseases                | Under |     |      |       |       | Over |     | Total |   |     |    |
|-------------------------|-------|-----|------|-------|-------|------|-----|-------|---|-----|----|
|                         | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |     |       |   |     |    |
| Diarrhœa .....          | 1     | ... | ...  | ...   | ...   | ...  | ... | 1     |   |     |    |
| Bright's Disease .....  | ...   | ... | ...  | ...   | 2     | ...  | 1   | 3     |   |     |    |
| Heart Disease .....     | ...   | ... | ...  | ...   | 1     | ...  | 1   | 2     |   |     |    |
| Cancer .....            | ...   | ... | ...  | ...   | 2     | ...  | ... | 2     |   |     |    |
| Apoplexy .....          | ...   | ... | ...  | ...   | 2     | ...  | 1   | 3     |   |     |    |
| Atrophy (Senile) .....  | ...   | ... | ...  | ...   | ...   | ...  | 1   | 1     |   |     |    |
| Tabes Mesenterica ...   | 1     | ... | ...  | ...   | ...   | ...  | ... | 1     |   |     |    |
| Tubercular Meningitis   | ...   | ... | ...  | ...   | 1     | ...  | ... | 1     |   |     |    |
| All other diseases..... | ...   | ... | ...  | 1     | ...   | 1    | ... | 2     |   |     |    |
| Totals .....            | 2     | ... | ...  | ...   | 1     | ...  | 9   | ...   | 4 | ... | 16 |

DEATHS IN SUTTON.

Quarter - ending December, 1908.

| Diseases               | Under |     |      |       |       | Over |    | Total. |
|------------------------|-------|-----|------|-------|-------|------|----|--------|
|                        | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   |    |        |
| Pulmonary Tuberculosis | ...   | ... | ...  | ...   | 1     | ...  | 1  |        |
| Bronchitis .....       | ...   | ... | ...  | ...   | ...   | 1    | 1  |        |
| Heart Disease .....    | ...   | ... | ...  | ...   | 1     | 2    | 3  |        |
| Injuries .....         | ...   | ... | ...  | ...   | ...   | 1    | 1  |        |
| Cancer .....           | ...   | ... | ...  | ...   | 1     | 1    | 2  |        |
| Convulsions .....      | ...   | ... | 1    | ...   | ...   | ...  | 1  |        |
| Apoplexy .....         | ...   | ... | ...  | ...   | ...   | 4    | 4  |        |
| Other Brain Diseases   | ...   | ... | ...  | ...   | 1     | ...  | 1  |        |
| Premature Birth .....  | 1     | ... | ...  | ...   | ...   | ...  | 1  |        |
| Atrophy (Senile) ..... | ...   | ... | ...  | ...   | ...   | 3    | 3  |        |
| Tubercular Meningitis  | ...   | 1   | ...  | ...   | ...   | ...  | 1  |        |
| Totals .....           | 1     | 1   | 1    | ...   | 4     | 12   | 19 |        |

## DISTRICT MORTALITY.

It is usual to divide the Borough into three districts which corresponded to the three registration areas. Since April of last year, however, the East Macclesfield area has been merged into the West Macclesfield district, the two constituting the Macclesfield district, leaving only the small sub-area of Sutton as a separate registration district. I have, however, with the kind help of the Registrar for the new district, still returned the old areas, and have distributed the deaths to those areas as heretofore. It is of great value to be able thus to distinguish the parts of a district which possess high death rates, otherwise it becomes impossible to spot out insanitary areas when good and bad districts are merged into one.

|                                             | Year | 1908 |     | 1907 |
|---------------------------------------------|------|------|-----|------|
| Number of deaths in West Macclesfield ..... | 293  | ...  | 280 |      |
| „ „ East Macclesfield .....                 | 210  | ...  | 219 |      |
| „ „ Sutton .....                            | 73   | ...  | 81  |      |

## DISTRICT DEATH RATES.

In considering District Mortality we must bear in mind that many persons die in West Macclesfield from diseases contracted in either East Macclesfield or Sutton. This arises from the fact that all the Public Institutions for the reception of sick and infirm people are situated in West Macclesfield. With the valuable help of the Registrar of Deaths for West Macclesfield, I am enabled to assign these deaths to the several districts to which they originally belonged, and thus prevent the death-rate of West Macclesfield being unduly raised, to the advantage of the remaining districts.

|               | YEAR 1908.             |                        |                            |                         |                                                |                                 |
|---------------|------------------------|------------------------|----------------------------|-------------------------|------------------------------------------------|---------------------------------|
| Macclesfield. | General<br>Death rate. | Zymotic death<br>rate. | Respiratory<br>death rate. | Phthisis<br>death rate. | Deaths from<br>other forms of<br>Tuberculosis. | Infantile<br>Mortality<br>rate. |
| West .....    | 16                     | 0·8                    | 2·4                        | 1·3                     | 0·9                                            | 116                             |
| East .....    | 16·8                   | 1·5                    | 1·2                        | 1·6                     | 0·4                                            | 159                             |
| Sutton .....  | 14·9                   | 0·6                    | 1·4                        | 0·6                     | 1·0                                            | 69                              |

## YEAR 1907.

| Macclesfield. | General<br>Death rate. | Zymotic death<br>rate. | Respiratory<br>death rate. | Phthisis<br>death rate. | Deaths from<br>other forms of<br>Tuberculosis. | Infantile<br>Mortality<br>rate. |
|---------------|------------------------|------------------------|----------------------------|-------------------------|------------------------------------------------|---------------------------------|
| West ... ..   | 16.1                   | 0.4                    | 2.6                        | 1.8                     | 0.2                                            | 95                              |
| East .....    | 17.6                   | 1.0                    | 2.8                        | 1.2                     | 0.5                                            | 157                             |
| Sutton .....  | 17.2                   | 1.2                    | 2.7                        | 0.8                     | 0.4                                            | 54                              |

## YEAR 1906.

| Macclesfield.           | General<br>Death rate. | Zymotic death<br>rate. | Respiratory<br>death rate. | Phthisis<br>death rate. | Deaths from<br>other forms of<br>Tuberculosis. | Infantile<br>Mortality<br>rate. |
|-------------------------|------------------------|------------------------|----------------------------|-------------------------|------------------------------------------------|---------------------------------|
| West ..... <sub>v</sub> | 15.6                   | 1.0                    | 1.8                        | 0.9                     | 0.5                                            | 82                              |
| East ..... <sub>v</sub> | 20.4                   | 1.9                    | 3.0                        | 2.1                     | 0.5                                            | 179                             |
| Sutton .....            | 13.3                   | 2.0                    | 2.0                        | 1.6                     | 0.4                                            | 120                             |

## YEAR 1905.

| Macclesfield. | General<br>Death rate. | Zymotic death<br>rate. | Respiratory<br>death rate. | Phthisis<br>death rate. | Deaths from<br>other forms of<br>Tuberculosis. | Infantile<br>Mortality<br>rate. |
|---------------|------------------------|------------------------|----------------------------|-------------------------|------------------------------------------------|---------------------------------|
| West ... ..   | 17.5                   | 1.5                    | 2.1                        | 1.3                     | 0.4                                            | 168                             |
| East .....    | 18.0                   | 1.6                    | 2.4                        | 0.9                     | 1.0                                            | 132                             |
| Sutton .....  | 20.2                   | 1.6                    | 3.0                        | 1.2                     | 0.8                                            | 129                             |

The East Macclesfield figures are again unsatisfactory in almost every particular and continue to proclaim the need for strict sanitary supervision of that area.

It may be of interest to point out the boundaries of East Macclesfield, which includes Hurdsfield, the greater part of the Waterside, Bank Street, Black Road, Windmill Street, and adjacent streets, and all the Easterly side of Mill Street and the Market Place. The parishes of Saint Peter's and Saint Paul's include most of this area.

Hurdsfield shows exceptionally good figures which makes the rest of the district all the more unsatisfactory since the combination of Hurdsfield figures with the remaining ones improves the total very considerably.

Much of the house property is poor and delapidated and is let at very low rentals, the latter fact encourages a very poor class of people to live in the area not to the good of the town.

## DEATHS IN WEST MACCLESFIELD.

Year ending December, 1908.

| Diseases                                     | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total |
|----------------------------------------------|----------------|-----|------|-------|-------|------------|-------|
| Diphtheria .....                             | 1              | 1   | 1    | ...   | ...   | ...        | 3     |
| Typhoid Fever.....                           | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Influenza .....                              | ...            | ... | ...  | 1     | 4     | 4          | 9     |
| Other Septic Diseases                        | ...            | ... | 1    | ...   | ...   | ...        | 1     |
| Measles.. .....                              | 3              | 4   | ...  | ...   | ...   | ...        | 8     |
| Whooping Cough.....                          | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Diarrhœa .....                               | 2              | ... | ...  | ...   | ...   | ...        | 2     |
| Enteritis .....                              | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Rheumatic Fever.....                         | ...            | ... | ...  | ...   | 3     | ...        | 3     |
| Bright's Disease .....                       | ...            | ... | ...  | ...   | 8     | 1          | 9     |
| Pulmonary Tuberculosis                       | ...            | ... | ...  | 3     | 19    | 1          | 23    |
| Bronchitis .....                             | 5              | 2   | 1    | ...   | 10    | 4          | 22    |
| Pneumonia .....                              | 4              | 6   | ...  | 3     | 5     | 1          | 10    |
| Other Respiratory Dis-<br>eases .....        | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Alcoholish & Cirrhosis<br>of Liver.....      | ...            | ... | ...  | ...   | 4     | ...        | 4     |
| Heart Disease .....                          | 1              | 1   | ...  | ...   | 25    | 19         | 46    |
| Suicide .....                                | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Injuries .....                               | ...            | 1   | ...  | 1     | 2     | 1          | 5     |
| Venereal Diseases ...                        | 2              | ... | ...  | ...   | ...   | ...        | 2     |
| Cancer .....                                 | ...            | ... | ...  | ...   | 13    | 12         | 25    |
| Convulsions .....                            | 8              | 1   | ...  | ...   | 1     | ...        | 10    |
| Apoplexy .....                               | ...            | ... | ...  | ...   | 15    | 7          | 22    |
| Insanity .....                               | ...            | ... | ...  | ...   | 2     | ...        | 2     |
| Other Brain Diseases                         | ...            | 1   | 1    | ...   | 1     | ...        | 3     |
| Diseases & Accidents<br>of Parturition ..... | ...            | ... | ...  | 1     | ...   | ...        | 1     |
| Premature Birth .....                        | 9              | ... | ...  | ...   | ...   | ...        | 9     |
| Marasmus.....                                | 1              | 1   | ...  | ...   | ...   | ...        | 2     |
| Atrophy (Senile).....                        | ...            | ... | ...  | ...   | 1     | 28         | 29    |
| Tabes Mesenterica ...                        | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Tubercular Meningitis                        | 3              | 1   | 3    | ...   | ...   | ...        | 7     |
| Tuberculosis .....                           | ...            | 2   | 2    | 3     | 1     | 1          | 9     |
| All other diseases.....                      | ...            | 2   | 2    | 1     | 8     | 2          | 13    |
| Totals ... ..                                | 39             | 24  | 11   | 13    | 125   | 81         | 293   |

## DEATHS IN EAST MACCLESFIELD.

Year ending December, 1908.

| Diseases                                     | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total |
|----------------------------------------------|----------------|-----|------|-------|-------|------------|-------|
| Diphtheria .....                             | 1              | 3   | ...  | ...   | ...   | ...        | 4     |
| Typhoid Fever .....                          | ...            | ... | ...  | 1     | ...   | ...        | 1     |
| Influenza .....                              | ...            | 1   | ...  | ...   | 1     | 1          | 3     |
| Erysipelas.....                              | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Measles .. ....                              | 4              | 8   | ...  | ...   | ...   | ...        | 12    |
| Diarrhœa .....                               | 1              | ... | ...  | ...   | 1     | ...        | 2     |
| Enteritis .....                              | 2              | ... | ...  | ...   | ...   | ...        | 2     |
| Rheumatic Fever .....                        | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Bright's Disease .....                       | ...            | ... | ...  | ...   | 5     | 2          | 7     |
| Pulmonary Tuberculosis                       | ...            | 1   | ...  | 3     | 16    | ...        | 20    |
| Bronchitis.....                              | 4              | 1   | ...  | ...   | 3     | 2          | 10    |
| Pneumonia .....                              | 1              | 4   | ...  | ...   | ...   | ...        | 5     |
| Pleurisy .....                               | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Other Respiratory Dis-<br>eases.....         | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Alcoholish & Cirrhosis<br>of Liver .....     | ...            | ... | ...  | ...   | 5     | ...        | 5     |
| Heart Disease .....                          | ...            | ... | ...  | 2     | 19    | 8          | 29    |
| Suicide .....                                | ...            | ... | ...  | 2     | 2     | ...        | 4     |
| Injuries.....                                | ...            | ... | 1    | ...   | 1     | 2          | 4     |
| Venereal Diseases ...                        | 3              | ... | ...  | ...   | ...   | ...        | 3     |
| Cancer .....                                 | ...            | ... | ...  | ...   | 8     | 2          | 10    |
| Convulsions .....                            | 6              | 1   | ...  | 1     | 1     | ...        | 9     |
| Apoplexy .....                               | ...            | ... | ...  | ...   | 3     | 2          | 5     |
| Insanity .....                               | ...            | ... | ...  | ...   | 2     | ...        | 2     |
| Other Brain Diseases                         | ...            | ... | ...  | ...   | 2     | ...        | 2     |
| Diseases & Accidents<br>of Parturition ..... | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Premature Birth .....                        | 8              | ... | ...  | ...   | ...   | ...        | 8     |
| Marasmus .....                               | 7              | 1   | ...  | ...   | ...   | ...        | 8     |
| Atrophy (Senile).....                        | ...            | ... | ...  | ...   | ...   | 18         | 18    |
| Tabes Mesenterica ...                        | ...            | ... | 1    | ...   | ...   | ...        | 1     |
| Tuberculosis .....                           | 1              | 2   | ...  | ...   | ...   | 1          | 4     |
| All other diseases.....                      | 7              | 1   | 2    | 3     | 8     | 6          | 27    |
| Totals .....                                 | 45             | 23  | 4    | 12    | 82    | 44         | 210   |

DEATHS IN SUTTON.  
Year ending December, 1908.

| Diseases                                   | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total |
|--------------------------------------------|----------------|-----|------|-------|-------|------------|-------|
| Diphtheria.....                            | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| Typhoid Fever .....                        | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Influenza .....                            | ...            | ... | ...  | ...   | ...   | 1          | 1     |
| Diarrhœa .....                             | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Bright's Disease .....                     | ...            | ... | 1    | ...   | 4     | 1          | 6     |
| Pulmonary Tuberculosis                     | ...            | ... | ...  | 2     | 1     | ...        | 3     |
| Bronchitis .....                           | 1              | ... | ...  | 2     | 1     | 1          | 5     |
| Pneumonia .....                            | ...            | 1   | ...  | 1     | ...   | ...        | 2     |
| Alcoholish & Cirrhosis<br>of Liver .....   | ...            | ... | ...  | ...   | ...   | 1          | 1     |
| Heart Disease .....                        | ...            | ... | ...  | ...   | 3     | 3          | 6     |
| Suicide .....                              | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Injuries .....                             | ...            | ... | ...  | ...   | ...   | 1          | 1     |
| Venereal Diseases ..                       | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Cancer .....                               | ...            | ... | ...  | ...   | 7     | 1          | 8     |
| Convulsions .....                          | 1              | ... | 1    | ...   | ...   | ...        | 2     |
| Apoplexy .....                             | ...            | ... | ...  | ...   | 3     | 6          | 9     |
| Other Brain Diseases                       | ...            | ... | ...  | ...   | 1     | ...        | 1     |
| Diseases & Accidents<br>of Parturition ... | ...            | ... | ...  | 1     | ...   | ...        | 1     |
| Premature Birth .....                      | 4              | ... | ...  | ...   | ...   | ...        | 4     |
| Atrophy (Senile) .....                     | ...            | ... | ...  | ...   | ...   | 10         | 10    |
| Tabes Mesenterica ..                       | 1              | ... | ...  | ...   | ...   | ...        | 1     |
| Tubercular Meningitis                      | 1              | 1   | ...  | ...   | 1     | ...        | 3     |
| Tuberculosis.....                          | ...            | 1   | ...  | ...   | ...   | ...        | 1     |
| All other diseases ...                     | ...            | ... | ...  | 1     | 2     | ...        | 3     |
| Totals .....                               | 10             | 4   | 2    | 7     | 25    | 25         | 73    |

## DEATHS IN PUBLIC INSTITUTIONS.

There is a slight decrease this year in the number of deaths occurring in our various Public Institutions. The decrease being principally in the number of deaths in the Workhouse.

## NUMBER OF DEATHS IN PUBLIC INSTITUTIONS.

|                    | Year | 1908       | 1907       | 1906       |
|--------------------|------|------------|------------|------------|
| Asylum ... ..      | ...  | 88         | 81         | 56         |
| Workhouse ... ..   | ...  | 47         | 81         | 96         |
| Infirmary ... ..   | ...  | 45         | 45         | 45         |
| Isolation Hospital | ...  | 4          | 3          | 7          |
| Totals             | ...  | <u>183</u> | <u>210</u> | <u>204</u> |

## THE PRINCIPAL CAUSES OF DEATH WERE :

|                                            |    |                                                    |
|--------------------------------------------|----|----------------------------------------------------|
| Heart disease.....                         | 29 | of which 12 occurred in Workhouse and 12 in Asylum |
| Senile decay .....                         | 16 | occurring in the Workhouse                         |
| Bright's disease .....                     | 22 | of which 20 occurred in the Asylum.                |
| Pulmonary Tuberculosis                     | 13 | of which 8 occurred in the Asylum.                 |
| Insanity (principally G.P. of insane)..... | 23 | all occurred in Asylum.                            |

The Institutions draw their patients from outside the Borough, but I have included in these figures all deaths occurring therein, whether of inhabitants of the Borough or otherwise.

## DEATHS IN PUBLIC INSTITUTIONS, YEAR ENDING DECEMBER, 1908.

TOTALS.

| Diseases.                             | ISOLATION HOSPITAL. |     |       |        | WORKHOUSE.  |     |       |       |         |       | INFIRMARY. |     |      |       |       |         | ASYLUM. |       |       |     | Total |        | Total deaths in Institutions. |
|---------------------------------------|---------------------|-----|-------|--------|-------------|-----|-------|-------|---------|-------|------------|-----|------|-------|-------|---------|---------|-------|-------|-----|-------|--------|-------------------------------|
|                                       | Under 1 yr.         | 1-5 | 25-65 | Total. | Under 1 yr. | 1-5 | 15-25 | 25-65 | Over 65 | Total | 1 yr.      | 1-5 | 5-15 | 15-25 | 25-65 | Over 65 | Total   | 15-25 | 25-65 | 65  | Total | Asylum |                               |
| Diphtheria .....                      | 1                   | 2   | ...   | 3      | ...         | ... | ...   | ...   | ...     | ...   | ...        | ... | ...  | ...   | ...   | ...     | ...     | ...   | ...   | ... | ...   | ...    | 3                             |
| Typhoid Fever .....                   | ...                 | ... | 1     | 1      | ...         | ... | ...   | ...   | ...     | ...   | ...        | ... | ...  | ...   | ...   | ...     | ...     | 1     | ...   | ... | ...   | 1      | 2                             |
| Diarrhoea .....                       | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | 1          | ... | ...  | ...   | ...   | ...     | 1       | ...   | ...   | ... | ...   | ...    | 1                             |
| Bright's Disease .....                | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | ...        | ... | ...  | 1     | ...   | 1       | 2       | ...   | 12    | 8   | 20    | 22     | 22                            |
| Pulmonary Tuberculosis .....          | ...                 | ... | ...   | ...    | ...         | ... | 1     | 2     | ...     | 3     | ...        | ... | ...  | ...   | 2     | ...     | 2       | ...   | 6     | 2   | 8     | 13     | 13                            |
| Bronchitis .....                      | ...                 | ... | ...   | ...    | ...         | ... | ...   | 3     | ...     | 3     | 1          | ... | ...  | ...   | ...   | ...     | 1       | ...   | ...   | ... | ...   | ...    | 4                             |
| Pneumonia .....                       | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | ...        | ... | ...  | ...   | 1     | ...     | 1       | ...   | 3     | ... | 3     | ...    | 4                             |
| Other Respiratory Diseases .....      | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | ...        | ... | ...  | ...   | ...   | ...     | ...     | 2     | ...   | 2   | ...   | 2      | 2                             |
| Alcoholish & Cirrhosis of Liver ..... | ...                 | ... | ...   | ...    | ...         | ... | ...   | 1     | ...     | 1     | ...        | ... | ...  | ...   | ...   | ...     | ...     | 1     | ...   | 1   | ...   | ...    | 2                             |
| Heart Disease .....                   | ...                 | ... | ...   | ...    | ...         | ... | ...   | 7     | 5       | 12    | ...        | ... | 1    | ...   | 3     | 1       | 5       | ...   | 9     | 3   | 12    | 29     | 29                            |
| Injuries .....                        | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | ...        | 2   | ...  | 1     | 3     | ...     | 6       | ...   | 2     | ... | 2     | ...    | 8                             |
| Veneral Diseases .....                | ...                 | ... | ...   | ...    | 1           | ... | ...   | ...   | ...     | 1     | ...        | ... | ...  | ...   | ...   | ...     | ...     | ...   | ...   | ... | ...   | ...    | 1                             |
| Cancer .....                          | ...                 | ... | ...   | ...    | ...         | ... | ...   | 2     | ...     | 2     | ...        | ... | ...  | ...   | 3     | ...     | 3       | ...   | 2     | ... | 2     | ...    | 7                             |
| Apoplexy .....                        | ...                 | ... | ...   | ...    | ...         | ... | 2     | 2     | ...     | 4     | ...        | ... | ...  | ...   | ...   | ...     | ...     | ...   | 1     | 1   | 2     | ...    | 6                             |
| Insanity .....                        | ...                 | ... | ...   | ...    | ...         | ... | ...   | 1     | ...     | 1     | ...        | ... | ...  | ...   | ...   | ...     | ...     | ...   | 21    | 1   | 22    | ...    | 23                            |
| Other Brain Diseases .....            | ...                 | ... | ...   | ...    | ...         | ... | ...   | 1     | ...     | 1     | ...        | ... | ...  | ...   | ...   | ...     | ...     | ...   | 6     | 1   | 7     | ...    | 8                             |
| Premature Birth .....                 | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | 1          | ... | ...  | ...   | ...   | ...     | 1       | ...   | ...   | ... | ...   | ...    | 1                             |
| Marasmus .....                        | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | 2          | 2   | ...  | ...   | ...   | ...     | 4       | ...   | ...   | ... | ...   | ...    | 4                             |
| Atrophy (Senile) .....                | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | 16      | 16    | ...        | ... | ...  | ...   | ...   | ...     | ...     | ...   | ...   | ... | ...   | ...    | 16                            |
| Tabes Mesenterica .....               | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | ...        | ... | ...  | ...   | 1     | ...     | 1       | ...   | ...   | ... | ...   | ...    | 1                             |
| Tubercular Meningitis .....           | ...                 | ... | ...   | ...    | ...         | ... | ...   | ...   | ...     | ...   | 2          | ... | 1    | ...   | ...   | ...     | 3       | ...   | ...   | ... | ...   | ...    | 3                             |
| Tuberculosis .....                    | ...                 | ... | ...   | ...    | 2           | ... | ...   | ...   | ...     | 2     | ...        | 2   | ...  | ...   | ...   | ...     | 3       | ...   | ...   | ... | ...   | ...    | 5                             |
| All other diseases .....              | ...                 | ... | ...   | ...    | ...         | ... | ...   | 1     | ...     | 1     | 2          | 1   | 1    | 1     | 1     | ...     | 12      | ...   | 4     | 1   | 5     | ...    | 18                            |
| Totals .....                          | 1                   | 2   | 1     | 4      | 1           | 2   | 1     | 20    | 23      | 47    | 9          | 8   | 3    | 3     | 20    | 2       | 45      | 1     | 69    | 17  | 87    | ...    | 183                           |



### INFANTILE MORTALITY.

|                                                              |            |
|--------------------------------------------------------------|------------|
| Total number of deaths under one year of age in this Borough | 94         |
| Death rate per 1000 born                                     | ... .. 127 |
| „ „ England and Wales                                        | ... .. 110 |
| „ „ 76 great towns                                           | ... .. 128 |
| „ „ 142 smaller towns                                        | ... .. 124 |

Last year the rate for this Borough was 120 per 1000 born and the actual number of deaths was 85.

### AGES IN MONTHS AT WHICH THE DEATHS HAVE OCCURRED.

---

| Under<br>one<br>month. | One to<br>three<br>months. | Three to<br>six<br>months. | Six to<br>nine<br>months. | Nine to<br>twelve<br>months. | Total. |
|------------------------|----------------------------|----------------------------|---------------------------|------------------------------|--------|
| 43                     | ... 10                     | ... 16                     | ... 15                    | .. 10                        | ... 94 |

---

### PRINCIPAL CAUSES TO WHICH THE DEATHS HAVE BEEN ASSIGNED.

|                   |        |    |
|-------------------|--------|----|
| Premature birth   | ... .. | 20 |
| Convulsions       | .. ... | 15 |
| Debility, Atrophy | ... .. | 10 |
| Bronchitis        | ... .. | 10 |
| Syphilis          | ... .. | 6  |
| Measles           | ... .. | 6  |

# DISTRICT INFANTILE MORTALITY TABLE.

Showing rate of mortality among infants under one year of age to 1,000 registered births apportioned to the different districts, compared with the corresponding figures for the last twenty years.

| Districts.        | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | Average for<br>10 years. | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | Average for<br>last 10 years. |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|
| West Macclesfield | 118  | 180  | 143  | 136  | 192  | 170  | 110  | 310  | 138  | 152  | 155                      | 189  | 223  | 167  | 186  | 111  | 110  | 173  | 168  | 82   | 95   | 113  | 142                           |
| East Macclesfield | 171  | 255  | 219  | 161  | 215  | 225  | 137  | 210  | 180  | 187  | 195                      | 159  | 167  | 242  | 155  | 103  | 170  | 190  | 132  | 179  | 167  | 159  | 166                           |
| Hurdsfield .....  | 87   | 169  | 160  | 127  | 177  | 153  | 156  | 170  |      | 187  | 195                      | 159  | 167  | 242  | 155  | 103  | 170  | 190  | 132  | 179  | 167  | 159  | 166                           |
| Sutton.....       | 148  | 212  | 124  | 108  | 235  | 191  | 126  | 212  | 148  | 212  | 167                      | 135  | 187  | 142  | 219  | 65   | 114  | 166  | 129  | 120  | 54   | 109  | 130                           |
| The whole borough | 135  | 220  | 172  | 130  | 203  | 190  | 134  | 247  | 155  | 175  | 172                      | 174  | 196  | 190  | 180  | 102  | 134  | 178  | 149  | 123  | 120  | 127  | 149                           |
| 76 Great Towns... | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                      | ...  | ...  | 173  | 165  | 145  | 144  | 160  | 140  | 146  | 127  | 128  | ...                           |
| England .....     | 136  | 144  | 151  | 149  | 148  | 159  | 137  | 161  | 148  | 156  | 161                      | 163  | 154  | 154  | 151  | 133  | 132  | 146  | 128  | 133  | 118  | 110  | ...                           |

I pointed out how high a death-rate we had from prematurity, and no doubt many of the cases classed under the head of Debility or Atrophy would be more correctly described as being cases of premature birth.

Prematurity and Atrophy together constitute more than 30 per cent of the total deaths under one year of age.

I think we ought to make more enquiry into these deaths, since the large numbers involved are a serious reflection on the district.

We ought to enquire into the conditions of motherhood, in these cases, special attention being paid to the (a) physique and health of the mother; (b) her past history in respect of miscarriage, abortion or premature birth; (c) her general environment, poverty, and feeding; (d) to hard work during pregnancy. The employment of women at mills and factories during the latter months of pregnancy is I am convinced responsible for some of this loss of child life.

In this connection the following table, taken from the last Census Report, showing the number of married women engaged in occupations, is of interest :—

|                    | Total. | Females over 10 in<br>occupation<br>married or<br>widowed. | Proportion per<br>cent of married<br>or widowed in<br>occupation. |
|--------------------|--------|------------------------------------------------------------|-------------------------------------------------------------------|
| Crewe .....        | 2994   | ... 468                                                    | ... 15·6                                                          |
| Dukinfield .....   | 3421   | ... 833                                                    | ... 27·2                                                          |
| Congleton ... ..   | 2196   | ... 582                                                    | ... 26·8                                                          |
| Stalybridge .. ..  | 6087   | ... 1777                                                   | ... 29·1                                                          |
| Hyde .. ... ..     | 7005   | ... 2150                                                   | ... 30·6                                                          |
| Macclesfield ..... | 8398   | ... 2629                                                   | ... 31·3                                                          |

I shewed last year that we had the highest death-rate from prematurity of any of the non-county Boroughs in Cheshire, and I think the deduction is quite justified and sound, that there is a casual connection between the two, the high employment rate accounting to a large extent for the high death-rate from prematurity.

As regards the nutrition of the mother before child birth, this in a many cases has left very much to be desired. The necessity of working in the mill, the scanty time left for home work, the deficiency in knowledge of how to buy suitable food, and the consequent purchase of ready-made "tasty dishes," which are excessively dear and contain but little nourishment; these matters are of daily observation, and all go to lower the strength of the prospective mother and undermine the framework of the future child.

If women must work in mills and factories it does seem that the community which requires female labour, should take every possible means to ensure the pregnant woman receiving adequate food and rest during her pregnancy, and for some period thereafter.

I much regret that the dinners provided by the Ladies' Public Health Society at a small charge for prospective and nursing mothers, had to be discontinued owing to want of funds.

This is most certainly work which is urgently needed if we are wishful to improve the future of our race and nation. We cannot afford to allow feeble puny babies to be brought into our midst when we can ensure a strong and healthy type by looking after the health and feeding of the mother before and after the birth of the child.

We must take some steps to check this production of premature and feeble infants, and we must go to the root of the matter, and face the question of how to help the mothers. It is no exaggeration to say that overwork and starvation are responsible for our high death-rate from prematurity, and the public conscience needs arousing on this matter which is one of national importance and which concerns our town in a very special sense.

A high death-rate from prematurity means that many of the survivors grow up feeble stunted creatures who soon become a charge on the rates or charities of the town and are quite incapable of holding their own in the struggle for existence.

### CONVULSIONS.

The number of deaths ascribed to convulsions is still high, and it is not easy to say to what causes such deaths have been due, convulsions being merely a symptom of many diseases.

It is just as reasonable to assign a death from brain tumour to "headache" as to assign a death to convulsions without giving any cause for the convulsions which of course never come on spontaneously. Much more careful certification is needed under this head.

### BRONCHITIS.

The number of deaths from Bronchitis is high and probably some of these cases originated in Measles which was Epidemic during the last quarter of the year.

It will be noted that there has been a continuously steady decline in the number of deaths ascribed to diarrhoea and allied diseases. This is most satisfactory, and I believe that the Ladies Public Health Society has contributed in no small measure to bring about this result.

The long tube bottle is slowly disappearing, Breast feeding is becoming more popular. The care of the baby is slowly but surely becoming a matter of interest and intelligent enquiry. People are at last beginning to find out that the best instructor in the rearing of babies is not necessarily the woman who has buried the most of her own progeny. The dummy teat is struggling hard for its existence, and many mothers find it more satisfactory for themselves and the baby to banish it.

Soothing syrups and patent baby foods still block the way. "Patent foods for patent babies" should be the motto. Patent foods are not needed and are nearly always harmful. It would be a good policy if they were all prohibited by law from being used for human food, and reserved only for calves, pigs, and other farm stock requiring special feeding.

## LADIES PUBLIC HEALTH SOCIETY.

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The Town Council adopted the Notification of Births Act, 1908, and this came into force in April. It has imposed much extra work on this Society, as many children are now brought under observation of whom previously nothing officially was heard until their deaths were registered often before their births were recorded.

The Corporation contribute £50 per annum towards the funds of the Society, and have two representatives on its Committee who are invited to attend all its meetings. The representatives appointed were the Chairman of the Health Committee, Alderman Pickford and The Medical Officer of Health. One has only to attend a few of the monthly meetings to feel how many and varied are the problems to be solved, and how sadly insufficient are the factors at present given for their solution. I do earnestly commend to the most sympathetic consideration of the public of Macclesfield, the work of the Ladies Public Health Society. It is absolutely non-political and non-sectarian. Its basis its claims for public help on a much higher ground, that of the welfare of the children, and specially of the very young children. The Health Committee and the employers of female labour are under a special debt of obligation to this Society, and it will be a standing disgrace to both of its efforts if languished for want of adequate financial support.

## TUBERCULOSIS.

|                                                                             |     |
|-----------------------------------------------------------------------------|-----|
| Number of deaths from all forms of tuberculosis ... ..                      | 73  |
| „ „ Pulmonary tuberculosis...                                               | 46  |
| Death-rate per 1000 of population from Pulmonary tuberculosis ... ..        | 1·3 |
| Deaths from Phthisis in West Macclesfield...                                | 23  |
| Deaths from other forms of tuberculosis ... ..                              | 17  |
| Deaths from Phthisis in East Macclesfield ... ..                            | 20  |
| Deaths from other forms of tuberculosis in East Macclesfield                | 5   |
| Deaths from Phthisis in Sutton .. ..                                        | 3   |
| Deaths from other forms of tuberculosis in Sutton .. ..                     | 5   |
| Death-rate from Phthisis in West Macclesfield per 1000 of population ... .. | 1·3 |
| Death-rate from Phthisis in East Macclesfield per 1000 of population ... .. | 1·6 |
| Death-rate from Phthisis in Sutton per 1000 of population                   | 0·6 |

The other forms of tuberculosis which have ended fatally have been ;—

|                                                              |    |
|--------------------------------------------------------------|----|
| Tabes Mesenterica (or tuberculosis of the bowels) ... ..     | 3  |
| Tuberculous Meningitis (or tuberculosis of the brain) ... .. | 10 |
| General tuberculosis (of bones, glands, skin, &c.) ... ..    | 14 |

The average age at death from Phthisis is 40 years. *i.e.* at a period of life when the individual is of most value to the community. Hence the immense economic significance of the fact that among men nine out of every ten deaths from Phthisis occur between the ages 25 to 65 years.

It is estimated by the National Association for the Prevention of Tuberculosis that one eleventh of the total cost incurred in the relief of pauperism in England and Wales is caused by consumption.

Dr. Newsholme, the Medical Officer to the Local Government Board, writes "looking at the subject from the standpoint of national economics it is not open to dispute that the most elaborate and complete measures of every description against tuberculosis would only cost a fraction of the present total loss inflicted by this disease."

In the neighbouring town of Crewe, with a population of over 48,000, there were only 22 deaths attributed to Phthisis last year, against our 46. In Crewe the deaths have steadily declined, whereas here we are almost stationary.

In Crewe arrangements have been made for patients suffering from Phthisis to be admitted into the Isolation Hospital when occasion permitted, so as to educate them in the methods of cure and of preventing themselves spreading the disease on their return home.

#### NEED FOR FURTHER ACTION.

We have many cases of Phthisis occurring in the small houses of poor people where the surroundings are quite unfit for the sufferer, and where he spreads infection wholesale by spitting indiscriminately on walls, floors, &c. We ought to induce such people to accept hospital treatment for a month or two, not so much for curative purposes as to educate them in the proper mode of living, and of disposing of their phlegm, so as not to infect others living in the same house.

I have repeatedly suggested the occasional use of our Small-pox Hospital for this purpose. I think the experiment should be tried, and the surrounding districts might be invited to assist by sending suitable cases for treatment. Certainly

Some more active measures are urgently needed to deal with this disease which has assumed serious proportions in the town.

### VOLUNTARY NOTIFICATION SCHEME.

Since September, 1902, a scheme of voluntary notification of Phthisis has been in vogue in this town, with but little success as the following figures shew:—

#### NUMBER OF NOTIFICATIONS OF PHTHISIS RECEIVED SINCE SEPTEMBER, 1902.

| Year. | No. of Notifications. |     |    |
|-------|-----------------------|-----|----|
| 1903  | ...                   | ... | 99 |
| 1904  | ...                   | ... | 48 |
| 1905  | ...                   | ... | 59 |
| 1906  | ...                   | ... | 23 |
| 1907  | ...                   | ... | 16 |
| 1908  | ...                   | ... | 6  |

Recently the Local Government Board have issued an Order requiring the Poor Law Medical Officers to notify Phthisis cases occurring in their practice, but such notifications will touch but few of the sufferers in this town. The rate of contribution to our Burial Societies, &c., being very low, few poor people are not entitled to medical attendance from the practitioners employed by one or other of these agencies, and consequently they do not come under the care of the Poor Law Medical Officers.

To do any real good Compulsory Notification of all cases of Pulmonary Tuberculosis is necessary: on the Sheffield plan.

### EXAMINATION OF SPUTUM.

The Corporation defrays the cost of the Examination of samples of sputum for the presence of the tubercle bacillus, and a suitable outfit for sending such specimens is provided free of cost for practitioners in the Borough.

During the year 17 specimens were thus sent, and in two of these cases the tubercle bacillus was found to be present.

## MILK AND TUBERCULOSIS.

Having in view the strong representations of the Royal Commission on Tuberculosis and Milk, I caused six samples of milk from several dairymen to be taken and sent to the Lister Institute for Bacteriological Examination by inoculation as to the presence or absence of living tubercle bacilli therein. In one case the presence of living tubercle organisms was reported.

In company with the Veterinary Inspector I at once visited the farm and with the consent of the farmer examined the herd and took samples from three cows whose udders felt suspiciously hard and knotty in places. In none of these specimens were the tubercle bacilli found. The farmer informed us that a week or so before our visit he had sold a cow from his herd.

It is unfortunate that a month at least has to elapse between the taking of a sample and the reception of the report thereon, but this is inevitable when reliance has to be placed on experimental inoculation of the centrifugulised milk deposit.

I am convinced that there is a considerable amount of tuberculous milk still sold, and that it is directly responsible for the spread of tuberculous disease in one or other of its forms in human beings, especially in children. I propose taking further samples and will report to you the results of such examinations.

## DISINFECTION AFTER PHTHISIS.

In 22 instances of death after Phthisis, disinfection of the bedding, room, &c., was carried out by the Health Officials. Although this is an improvement on other years, the net result is far from satisfactory.

It is really necessary that the medical practitioners of the town should take this question up more energetically, and I appeal to them to notify the cases more frequently than is done at present.

We know that in a large number of cases of moderately advanced Phthisis, the infection hangs about the floor and lower part of the walls of the consumptive's rooms; it clings also to his pockets, bed-hangings, &c. If the doctor in attendance is to do

the best for his patient, he must rid him of his old infective material, and he cannot (in the majority of cases) do this alone. He must, in the interest of his patient, call in the aid of the Sanitary Officials, who will arrange for the efficient disinfection of the room and its belongings; then, with a rigid system of cleanliness, re-infection of the room, and repetition of danger from this source to patient and relatives is greatly diminished.

Dr. Newshome, the Medical Officer to the Local Government Board, writes as follows, and I beg to commend his remarks to the earnest consideration of the medical practitioners in this town.

“The most conscientious and indefatigable doctor can usually only ensure the carrying out of a portion of the measures which I have ventured to bring within the range of his legitimate duties. He may do so if his patient is wealthy and intelligent. He certainly cannot if his patient belongs to the working classes, who contribute the vast majority of the cases of phthisis. Between these two extremes are patients in whose behalf a varying degree of intervention on the part of the local authority is required. There is no wish on the part of such authorities or their officers to interfere, but only to help. If proper steps for preventing indiscriminate expectoration, for destroying any infective material already deposited by the patient, and for tracing possible connections with other cases of phthisis, have been taken, the less the intervention of any one between the medical man and his patient the better. But in actual practice most phthical patients have medical men in attendance only at intervals, and for a short portion of their total illness. Visits of an educational character are certainly needed in the intervals of professional attendance, if not also while the latter is in operation. In actual experience in Brighton, although a considerable number of cases of phthisis have been notified in private as well as in dispensary and hospital practice. no appreciable friction has been caused by my visit or those of my assistants, and a large amount of carelessness as to the disposal of sputum has been thus stopped.”

## THE ZYMOTIC DISEASES.

The seven principal Zymotic diseases are :—

1. Small-pox.
2. Measles.
3. Scarlet Fever or Scarlatina.
4. Whooping Cough.
5. Diphtheria or Membranous Croup.
6. Fevers. Typhoid and Typhus.
7. Zymotic or Summer Diarrhoea.

The total number of deaths from these diseases during 1908 was 36, against 28 in 1907.

|                                               |     |     |
|-----------------------------------------------|-----|-----|
| Zymotic death rate per 1000 of population ... | ... | 1·0 |
| „ „ „ England and Wales ...                   | ... | 1·2 |
| „ „ „ Borough last year ...                   | ... | 0·8 |

The following table shows the deaths attributed to these diseases during the year compared with previous years.

| Diseases.            | 1908 | 1907 | 1906 | 1905 |
|----------------------|------|------|------|------|
| Small-pox .....      | 0    | 0    | 0    | 1    |
| Measles .....        | 19   | 0    | 6    | 1    |
| Scarlet Fever.....   | 0    | 3    | 12   | 7    |
| Diphtheria .....     | 8    | 4    | 7    | 6    |
| Whooping Cough ..... | 1    | 14   | 0    | 18   |
| Typhoid Fever .....  | 3    | 3    | 1    | 0    |
| Diarrhoea .....      | 5    | 4    | 26   | 23   |
|                      | —    | —    | —    | —    |
|                      | 36   | 28   | 53   | 56   |
|                      | —    | —    | —    | —    |

## Zymotic death-rates since 1874 with quinquennial averages.

| Years.        | Death-rate from<br>the seven<br>Zymotic Diseases. |  | Death-rate from<br>the seven<br>Zymotic Diseases. |          |
|---------------|---------------------------------------------------|--|---------------------------------------------------|----------|
| 1874 .....    | 2.5                                               |  | 1892 .....                                        | 1.1      |
| 1875 .....    | 2.4                                               |  | 1893 .....                                        | 1.6      |
| 1876 ... ..   | 6.0                                               |  | 1894 .....                                        | 1.9 2.18 |
| 1877 ..... .. | 2.1                                               |  | 1895 .....                                        | 3.1      |
| 1878 .....    | 2.3                                               |  | 1896 ..... ..                                     | 3.2      |
| 1879 .....    | 1.7 2.12                                          |  | 1897 .....                                        | 3.2      |
| 1880 .....    | 1.1                                               |  | 1898 .....                                        | 1.8      |
| 1881 .....    | 3.4                                               |  | 1899 ..... ..                                     | 2.6 2.20 |
| A1882 .....   | 3.0                                               |  | 1900 .....                                        | 1.8      |
| 1883 .....    | 2.3                                               |  | 1901 .....                                        | 1.6      |
| 1884 .....    | 2.2 2.04                                          |  | c1902 ..... ..                                    | 0.3      |
| 1885 .....    | 0.8                                               |  | 1903 .....                                        | 0.9      |
| 1886 .....    | 1.9                                               |  | 1904 .....                                        | 2.3 1.32 |
| 1887 .....    | 3.2                                               |  |                                                   |          |
| B1888 ... ..  | 1.4                                               |  | 1905 ..... ..                                     | 1.6      |
| 1889 .....    | 3.0 2.02                                          |  | 1906 ... ..                                       | 1.5      |
| 1890 .. ..    | 1.4                                               |  | 1907 .....                                        | 0.8      |
| 1891 .....    | 1.1                                               |  | 1908 .....                                        | 1.0      |

A—Compulsory Notification came into force.

B—Isolation Hospital Opened.

c—Isolation Hospital Enlarged and Improved.

The increase in this rate is due to the greater number of deaths from measles and Diphtheria. The most satisfactory feature is the decline in the number of deaths from diarrhœa.

As neither measles nor whooping cough epidemics are usually or truly dependent on defective sanitary conditions, their excessive prevalence, as evidenced by an increased zymotic death-rate, furnishes less clue as to the health condition of the community than would any equally high zymotic death-rate due to such diseases as diphtheria and enteric fever, which are more directly the expression of faulty sanitary states.

## DISTRICT ZYMOTIC DEATH RATE.

| Diseases.           | West<br>Macclesfield. |     | East<br>Macclesfield. |     | Sutton. |
|---------------------|-----------------------|-----|-----------------------|-----|---------|
| Small-pox .....     | 0                     | ... | 0                     | ... | 0       |
| Measles .....       | 7                     | ... | 12                    | ... | 0       |
| Scarlet Fever ..... | 0                     | ... | 0                     | ..  | 0       |
| Diphtheria .....    | 3                     | ... | 4                     | ... | 1       |
| Whooping Cough..... | 1                     | ... | 0                     | ... | 0       |
| Enteric Fever.....  | 1                     | ... | 1                     | ... | 1       |
| Diarrhœa .....      | 2                     | ... | 2                     | ... | 1       |
| Totals ... ..       | 14                    | ... | 19                    | ... | 3       |

|                                               |     |     |     |     |     |
|-----------------------------------------------|-----|-----|-----|-----|-----|
| Zymotic death-rate per<br>1,000 of population | 0·5 | ... | 1·5 | ... | 0·6 |
| Last year .....                               | 0 5 | ... | 1·0 | ... | 1·2 |

## QUARTERLY ZYMOTIC DEATH-RATE.

|                       | 1st<br>Quarter |     | 2nd<br>Quarter |     | 3rd<br>Quarter |     | 4th<br>Quarter |
|-----------------------|----------------|-----|----------------|-----|----------------|-----|----------------|
| West Macclesfield ... | 1              | ... | 1              | ... | 2              | ... | 10             |
| East Macclesfield ... | 2              | ..  | 3              | ... | 1              | ... | 13             |
| Sutton .....          | 2              | ..  | 0              | ... | 1              | ... | 0              |
| Totals .....          | 5              | ... | 4              | ... | 4              | ... | 23             |

Of the 23 deaths occurring during the fourth quarter of the year no less than 19 were ascribed to measles. Of the 5 deaths occurring during the first quarter of the year 4 were ascribed to diphtheria.

## DIARRHŒA.

|                                                 |   |
|-------------------------------------------------|---|
| Number of deaths from diarrhœa .....            | 5 |
| "          "          "          last year..... | 4 |

Three deaths were registered as due to enteritis in addition to those ascribed to diarrhœa; epidemic or zymotic diarrhœa.

It seems necessary, again, to point out that under the head diarrhœa, should be included those acute specific attacks of illness, of which diarrhœa is the most prominent symptom, which occur so generally in persons of all ages, but more especially in infants and young children towards the middle or close of a hot, dry summer. It appears to be due to the consumption of tainted food, or of impure water, or to the breathing of foul air.

The decline in the number of deaths ascribed to this cause during the last two years is remarkable, and I set out in tabular form the record of deaths from diarrhœa since 1899.

| Year                                 | 1899 | 1900   | 1901  | 1902 | 1903  | 1904   | 1905   | 1906  | 1907  | 1908 |
|--------------------------------------|------|--------|-------|------|-------|--------|--------|-------|-------|------|
| Number of deaths<br>from diarrhœa... | 63   | .34... | 25... | 3 .. | 15 .. | 24 ... | 23 ... | 26... | 4 ... | 5    |

Both 1907 and 1908 were summers during which a fair amount of rain fell and neither could be described as hot nor dry for any length of time. To this cause I am inclined to attribute this marked diminution in diarrhœal mortality.

To a more limited extend may be attributed the gradual conversion of the foul privy-middens into water-closets, and also the efforts of the Ladies' Public Health Society to improve the conditions of early child-life and to instil notions of cleanliness in the care of infants.

Four out of the five deaths from diarrhœa occurred under one year of age, and two out of three cases of enteritis occurred during the same life-period.

The prevalence of diarrhœa is associated with want of cleanliness, lack of ventilation and light, foul stinks from privy-middens, drains, sewers, cess-pools, and other accum of filth. Amongst other contributory causes are neglect by the mothers, the occupation of mothers from home, and the bottle-feeding of young children: particularly the fouling of the milk stored in small or over-crowded or ill-kept houses.

### MEASLES.

During the latter half of the year, measles prevailed extensively all over the town and was responsible for 19 deaths, all occurring in children under five years of age.

|                         | Under<br>1 year. | 1-5<br>years. | Death-rate per 1,0000<br>of population. |
|-------------------------|------------------|---------------|-----------------------------------------|
| West Macelesfield ..... | 3                | 4             | 0.4                                     |
| East Macclesfield ..... | 4                | 8             | 0.9                                     |
| Sutton .....            | 0                | 0             | 0.0                                     |
| The Borough... ..       | 7                | 12            | 0.5                                     |

Number of cases notified by Teachers ..... 803

Death-rate per cent. notified..... 2.3

I have no doubt but that the mortality-rate was lower than 2.3 since many cases occurred amongst children not attending school, and consequently these were not notified by the teachers. The weather during the height of the epidemic was singularly warm, and to this cause I attribute the low death-rate. Warm weather does not favour pulmonary diseases which are the principal fatal complications of measles. Many of the deaths in young children were due to the intensely severe forms of the disease, the children dying within a few days of the onset in a toxic or poisoned condition. Had the weather been cooler there can be no doubt but that a much larger number would have succumbed to bronchitis or broncho-pneumonia.

The epidemic started during the second week in August, several notifications coming from Beech Lane School on the 12th of that month. During August, 17 cases were notified principally from Beech Lane and Christ Church Schools.

Early in September the disease began to assume much larger proportions and gradually spread from one school to another.

The following is a list of the schools in the Borough with the number of cases notified therefrom by the teachers, from August 10th to December 31st, 1908.

|                                  | Number notified |
|----------------------------------|-----------------|
| Broken Cross .....               | 1               |
| Beech Lane ..                    | 62              |
| Christ Church ...                | 115             |
| Crompton Road.....               | 32              |
| Daybrook Street .....            | 17              |
| Hurdsfield (Church Street) ..... | 23              |
| London Road .....                | 19              |
| Lord Street .....                | 8               |
| Mill Street.....                 | 41              |
| Duke Street .....                | 91              |
| Saint Albans.....                | 57              |
| Saint George's .....             | 120             |
| Saint John's .....               | 67              |
| Saint Peter's.....               | 64              |
| Saint Paul's .....               | 84              |

The disease never spread in the Broken Cross area which is situated a mile and a half from the town and forms a community to itself.

#### PREVENTIVE MEASURES ADOPTED.

The following circular-letter was sent to all the Head Teachers of the town on August 12th, 1908.

HEALTH DEPARTMENT,

TOWN HALL,

MACCLESFIELD, AUGUST 12TH 1908.

Dear Sir or Madam,

#### MEASLES.

The disease, Measles, threatens at the present time to become epidemic in this town, and as it is attended by a high rate of Mortality from Chest Complications, it is hoped that School Teachers will use every effort to prevent the spread of the disease. It is very desirable that a "Measles History" should be obtained of every child as to whether it has, or

has not, previously suffered therefrom. This can easily be done and will be of great value in deciding whether a school is to be closed or individual scholars excluded from school.

Signs of lassitude, watery eyes, cold in the head, or irritable cough should suffice to exclude the child from School at the present time, and the case should forthwith be notified to the Health Office.

I shall, at all times, be ready to render you any assistance in my power.

Yours faithfully,

J. H. MARSH,

Medical Officer of Health.

In response, I think most teachers obtained "Measles histories" of the younger members of the school. Such "histories" though of great value proved in many cases to be incorrect, and therefore were misleading.

In every case when I received a notification of Measles occurring in a class, I wrote the teacher asking that all the children in the same class or class-room who had been with the child immediately prior to its sickening with Measles and whose history showed it had not had the disease, should not be permitted to attend school for nine days from the time when the child notified became infectious, this date was ascertained by enquiry at the home as to the day when the rash appeared on the face and was fixed as being four days previously, at the end of these nine days the child or children were to be excluded for five or six days, during which time they would develop the disease at home, if they were going to have Measles and not sicken whilst in school and so spread the disease broadcast. This work necessitated 142 letters being written and an immense amount of work in following up these notifications, and ascertaining the precise date on which the rash appeared, as without this it was impossible to say how long the child had been spreading infection in school whilst supposed to be suffering only from bad cold, &c.

This plan of action was much nullified by reason of incorrect "Measles Histories" being obtained. Many children were stated to have had Measles and so were permitted to

attend school whilst they had really never had the disease, the result was they sickened whilst in school and so handed on the disease. It is difficult to know how to get over this difficulty. Theoretically, the policy of excluding incubating cases during the period of onset of the disease is satisfactory in practice owing to wrong information as to previous attack the system breaks down. If it was possible to obtain absolutely correct "Measles Histories" of all school children, it would be a comparatively easy matter to check school-spread infection.

This plan of excluding children as opposed to closing departments was tried in the cases of Crompton Road, St. George's Branch, Mill Street, and St. George's Infants.

About the middle of September it was obvious that the disease was gaining ground rapidly, and so the Infant Departments of the following schools were closed.

---

| School.              | Closed from        | to            |
|----------------------|--------------------|---------------|
| Mill Street .. .. .  | September 17th ... | October 12th. |
| Crompton Road.....   | September 21st ... | October 12th. |
| St. Paul's .....     | October 2nd ...    | October 21st. |
| Daybrook St. Infants | October 31st ...   | for 3 weeks.  |
| Lord St. Infants ... | October 31st ...   | for 3 weeks.  |
| London Road .....    | October 31st ...   | for 3 weeks.  |

---

Early in November the Chairman of the School Attendance Committee, and the Secretary to the Education Committee, met the Medical Officer of Health and pointed out how the depleted attendances at the schools (infants departments), was likely to seriously diminish the grant obtainable for such attendances unless the schools were closed on an order from the Sanitary Authority of the district.

With a view to meeting the wishes of the Education Authority, the Medical Officer of Health allowed the closure of all the Infant Departments in the Borough with the exception of Broken Cross, which was not affected with the disease.

The Medical Officer of Health pointed out that the general closure of departments deprived him of information

derived from the notifications by the teachers, and at a meeting on November 5th of the School Attendance Committee and the teachers of all the Infant Classes, it was agreed that the teachers should visit the homes of the children excluded at least once a week during the period of closure and report direct, on special forms provided, to the Medical Officer of Health as to any fresh cases occurring amongst the children so excluded.

The Closing Order was subsequently extended by two further Orders till the Christmas holidays.

It is interesting to note the figures immediately before and after the closure of the Infants' Department.

For the week prior to November 2nd, the number of cases notified was 167.

|                                  |     |
|----------------------------------|-----|
| First week after closure.....    | 104 |
| Second week       ,,       ..... | 73  |
| Third week        ,,       ..... | 37  |
| Fourth week       ,,       ..... | 22  |

The School Attendance Committee recommended all Managers of schools not to use the schools until they had been disinfected to the satisfaction of the Sanitary Authority. The Sanitary Authority were requested to allow their Inspector to give a demonstration of the methods of disinfection of the premises of one of the day-schools and that all the caretakers and official correspondents be requested to attend such demonstration and that each caretaker himself afterwards forthwith disinfect his school-premises according to the method shown to him at the demonstration.

The demonstration was given in the Duke Street School. The walls, floors, ceilings, maps, slates, &c., were carefully sprayed with a five per cent. solution of formalin in water. A special cupboard was constructed with perforated metal shelves and a space under the same wherein was placed a spirit lamp to volatilize Paraform Tablets, and so liberate formic aldehyde gas which would penetrate between the half-opened books.

The School Attendance Committee recommended all Superintendents and Managers of Sunday Schools to exclude

from Sunday School all children under seven years of age during the period of Day-school closure, and not to use Day-school premises for Sunday School purposes until such premises had been cleaned and disinfected.

Although the mortality from Measles was exceptionally low, yet, it left behind it many physical wrecks; damaged lungs, eyes, and ears can still be found all over the town. The periodically recurring epidemics require much closer grappling with at the onset.

Preventive measures are readily adopted when schools are depleted of Scholars and grant is imperilled. It is, however, at the earliest moment, when only one or two cases at most have broken out in a school, that prompt notification, careful exclusion of susceptible children, accurate "Measles Histories," will stop its further progress. When once the disease is rampant, it seems to defy all efforts to check its progress.

#### WHOOPING COUGH.

|                                                 |    |
|-------------------------------------------------|----|
| Number of deaths from Whooping Cough .....      | 1  |
| "          "          "          last year..... | 14 |
| "          "          "          1906.....      | 0  |
| "          "          "          1905.. .....   | 48 |
| "          "          "          1904.. .....   | 13 |

The one death from Whooping Cough occurred in West Macclesfield.

I append the usual table showing the deaths from Measles and Whooping Cough compared with all the other infectious diseases together.

| Year.        | Whooping Cough. |     | Measles. |     | All other infectious Diseases. |
|--------------|-----------------|-----|----------|-----|--------------------------------|
| 1903 .....   | 1               | ... | 0        | ... | 14                             |
| 1904 .....   | 13              | ... | 36       | ... | 5                              |
| 1905 ... ..  | 18              | ... | 1        | ... | 14                             |
| 1906 .....   | 0               | ... | 6        | ... | 20                             |
| 1907 .....   | 14              | ... | 0        | ... | 10                             |
| 1908 .....   | 1               | ... | 19       | ... | 11                             |
| Totals ..... | 47              | ... | 62       | ... | 74                             |
|              | 109             |     |          |     |                                |

An immense amount of money is very properly spent in isolation, disinfection, &c., after outbreaks of Scarlet Fever, Diphtheria, Enteric Fever, and Small-pox, and yet all these diseases together do not cause anything approaching the number of deaths attributable to Measles and Whooping Cough, for the prevention of which practically nothing is done, and which by many, who ought to know better, are regarded as the natural scourges of child-hood to be borne with fatuous resignation.

### CANCER.

Under this head are included deaths from Carcinoma and Sarcoma.

|                                            |   |   |            |    |
|--------------------------------------------|---|---|------------|----|
| Number of deaths from Cancer in 1908 ..... |   |   |            | 43 |
| „                                          | „ | „ | 1907 ..... | 39 |
| „                                          | „ | „ | 1906 ..    | 36 |
| „                                          | „ | „ | 1905 ..... | 53 |
| „                                          | „ | „ | 1904 ..... | 37 |
| „                                          | „ | „ | 1903 ..... | 36 |
| „                                          | „ | „ | 1902 ..... | 29 |

Of these 43 deaths, 28 were between 25 and 65 years of age and 15 were over 65 years of age. This gives a Cancer death-rate of 1.2 per 1,000 inhabitants compared with 1.1 last year.

25 deaths from Cancer in West Macclesfield.

10        „        „        „ East        „

8        „        „        „ Sutton.

Compared with other towns in Cheshire this rate is very high.

Crewe, with a population of 48,395, had 31 deaths from Cancer, giving a death-rate of 0·6 per 1,000 of population, and Stalybridge, with a population of 28,906, had 21 deaths, giving a death-rate from Cancer of 0·7 per 1,000 of population.

We offer disinfection of bedding, rooms, &c., after death from Cancer, but it is doubtful whether it is of value.

We have, of course, an excessive number of aged people in the town, and Cancer is eminently a disease of age and late middle-life.

## SCHOOL HYGIENE AND SCHOOL CLOSURE.

The Medical Inspection of school children has been carried on during the latter half of the year as required by "The Education (Administrative Provisions) Act, 1907." The Board of Education, in a letter dated August 29th, 1908, recognised the Medical Officer of Health as the School Medical Officer for the Borough, for the year commencing August 1st, last.

A separate Report of this work has been prepared by the School Medical Officer, and presented to the Education Authority who have authorised it to be printed and forwarded to the Board of Education.

## SCHOOL CLOSURE.

Owing to the prevalence of Measles in the Schools, and the failure of other methods to prevent the spread of the disease, and in order to secure the grant as related under the head of Measles in the present Report, the following Schools were closed for the period stated :—

Mill Street School (Infants department) Sept. 17th to Oct. 12th.

Crompton Road (Infants department) Sept. 21st to Oct. 12th.

St. Paul's (Infants department) Oct. 2nd to Oct. 23rd.

All the Infant departments of the public Elementary Schools, with the exception of Broken Cross School were closed from Nov. 2nd to Nov. 23rd; this order was extended until 14th of December, and subsequently till the Christmas holidays.

#### NOTIFICATION BY HEAD TEACHERS.

1086 Notifications were received from Head Teachers on the forms specially provided. They included the following diseases :

|                          |     |     |     |     |     |
|--------------------------|-----|-----|-----|-----|-----|
| Measles                  | ... | ... | ... | ... | 803 |
| Sore Throat and Mumps .. | ... |     |     |     | 135 |
| Whooping Cough ..        | ... | ... |     |     | 48  |
| Sores on body and face   | ... | ... |     |     | 31  |
| Chicken Pox              | ... | ... | ... |     | 25  |
| Ringworm                 | ... | ... | ... | ... | 21  |
| Suspected Scarlet Fever  | ... | ... |     |     | 17  |
| Diseases of the Eye      | ... | ... |     |     | 6   |

These Notifications are of very great value, and afford a good idea of the spread and incidence of the non-notifiable infectious diseases.

It is most important that the Notification should be sent *promptly*.

It is necessary to point out that these Notifications have imposed much extra work on the sanitary staff. The following up and visiting of these cases at their homes is essential and entails much work. The clerical work alone is considerable, for in connection with these 1086 Notifications no less than 142 letters, &c., were sent to the Education Department and parents.

These letters do not, of course, include the letters and notices sent in connection with the compulsorily notifiable diseases.

## THE NOTIFIABLE INFECTIOUS DISEASES.

### THE INFECTIOUS DISEASE (NOTIFICATION) ACT, 1889.

The Act requires that cases of Smallpox, Cholera, Diphtheria, Membranous Croup, Erysipelas, Scarlet Fever or Scarlatina, Typhoid or Enteric Fever, Typhus Fever, Relapsing, continued and Puerperal Fever shall be notified to the Medical Officer of Health.

(1) By the head of the household to which the patient belongs or in default any person in charge of or in attendance on the sufferer.

(2). Every Medical practitioner attending on or called into visit the patient shall forthwith, on becoming aware that such patient is suffering from an infectious disease to which this Act applies, send a certificate to the Medical Officer of Health.

### NOTIFICATIONS IN MACCLESFIELD.

Year ending December, 1907.

| Diseases.           | Under |     |      |       |       | Over |       |
|---------------------|-------|-----|------|-------|-------|------|-------|
|                     | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65   | Total |
| Scarlatina.....     | 0     | 15  | 32   | 6     | 2     | 0    | 55    |
| Diphtheria ..       | 2     | 13  | 13   | 8     | 3     | 0    | 39    |
| Typhoid Fever ..... | 1     | 0   | 0    | 4     | 4     | 0    | 9     |
| Erysipelas.....     | 0     | 0   | 0    | 2     | 6     | 3    | 11    |
| Totals .....        | 3     | 28  | 45   | 20    | 15    | 3    | 114   |

## NOTIFICATIONS IN MACCLESFIELD.

Year ending December, 1907.

| Diseases.             | Under |     |      |       |       |    |     |  | Over |  | Total |
|-----------------------|-------|-----|------|-------|-------|----|-----|--|------|--|-------|
|                       | 1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | 65 |     |  |      |  |       |
| Scarlatina.....       | 0     | 24  | 31   | 8     | 3     | 0  | 66  |  |      |  |       |
| Diphtheria.....       | 2     | 18  | 19   | 4     | 3     | 0  | 46  |  |      |  |       |
| Membranous Croup...   | 0     | 1   | 0    | 0     | 0     | 0  | 1   |  |      |  |       |
| Typhoid Fever .....   | 0     | 1   | 2    | 3     | 5     | 0  | 11  |  |      |  |       |
| Puerperal Fever ..... | 0     | 0   | 0    | 0     | 3     | 0  | 3   |  |      |  |       |
| Erysipelas.....       | 0     | 0   | 1    | 1     | 6     | 1  | 9   |  |      |  |       |
| Totals .....          | 2     | 44  | 53   | 16    | 20    | 1  | 136 |  |      |  |       |

## NOTIFICATION BY MEDICAL CERTIFICATES SINCE 1886.

|         | Smallpox | Scarlatina | Diphtheria | Membranous<br>Croup | Typhus Fever | Typhoid Fever | Continued Fever | Puerperal Fever | Totals |
|---------|----------|------------|------------|---------------------|--------------|---------------|-----------------|-----------------|--------|
| 1886 .. | —        | 42         | 2          | —                   | 2            | 19            | 1               | —               | 66     |
| 1887... | —        | 649        | 8          | —                   | —            | 44            | 8               | 2               | 711    |
| 1888... | 9        | 208        | 2          | —                   | 1            | 19            | 10              | 4               | 153    |
| 1889 .. | —        | 144        | —          | —                   | —            | 17            | 12              | —               | 173    |
| 1890... | —        | 98         | —          | —                   | —            | 7             | 2               | 2               | 109    |
| 1891... | —        | 38         | 2          | —                   | —            | 14            | 1               | 1               | 56     |
| 1892 .  | 1        | 51         | 2          | —                   | —            | 14            | 3               | —               | 71     |
| 1893... | 6        | 250        | 5          | —                   | —            | 13            | 2               | —               | 277    |
| 1894... | 4        | 42         | 5          | 1                   | —            | 17            | 2               | 6               | 80     |
| 1895... | —        | 31         | 117        | 22                  | —            | 29            | —               | 1               | 178    |
| 1896... | —        | 28         | 227        | —                   | —            | 22            | —               | 2               | 280    |
| 1897... | —        | 62         | 36         | 1                   | —            | 36            | —               | 1               | 135    |
| 1898... | —        | 268        | 20         | —                   | —            | 46            | —               | —               | 353    |
| 1899... | —        | 303        | 14         | —                   | —            | 35            | —               | 1               | 351    |
| 1900... | 1        | 50         | 16         | —                   | —            | 62            | —               | 1               | 156    |
| 1901... | 1        | 28         | 24         | —                   | —            | 20            | —               | 1               | 73     |
| 1902... | —        | 126        | 12         | 2                   | —            | 26            | —               | 5               | 196    |
| 1903... | 20       | 141        | 20         | —                   | —            | 21            | —               | 4               | 282    |
| 1904... | 49       | 56         | 7          | 1                   | —            | 12            | —               | 4               | 176    |
| 1905... | 6        | 103        | 12         | 2                   | —            | 13            | —               | 5               | 177    |
| 1906... | —        | 394        | 20         | 1                   | 1            | 13            | —               | 1               | 430    |
| 1907... | —        | 66         | 46         | 1                   | —            | 11            | —               | 3               | 127    |
| 1908... | —        | 55         | 39         | —                   | —            | 9             | —               | —               | 103    |

The use of the terms "Typhus Fever" and "Continued Fever," might now be discontinued. Typhus Fever is extinct and the cases of Continued Fever are now rightly classified as "Enteric Fever." The improved methods of diagnosis have rendered the term "Continued Fever" obsolete and of antiquarian interest only.

### DISTRICT NOTIFICATIONS.

|                                                   | West<br>Macclesfield | East<br>Macclesfield | Sutton |
|---------------------------------------------------|----------------------|----------------------|--------|
| Diphtheria .....                                  | 18                   | 18                   | 3      |
| Erysipelas .....                                  | 5                    | 5                    | 1      |
| Scarlet Fever.....                                | 22                   | 15                   | 18     |
| Enteric Fever .....                               | 3                    | 3                    | 3      |
| Totals .....                                      | 48                   | 41                   | 25     |
| Notification rate per 1,000<br>of population..... | 3·2                  | 4·7                  | 4·3    |
| Last year .....                                   | 3·2                  | 4·7                  | 4·3    |

### QUARTERLY NOTIFICATIONS.

#### NOTIFICATIONS.

For Quarter ending March 31st, 1908.

| Diseases           | Under<br>1 yr. | 1-5 | 5-15 | 15-25 | 25-65 | Over<br>65 | Total |
|--------------------|----------------|-----|------|-------|-------|------------|-------|
| Scarlatina .....   | 0              | 4   | 8    | 0     | 0     | 0          | 12    |
| Diphtheria .....   | 1              | 6   | 8    | 3     | 1     | 0          | 19    |
| Typhoid Fever..... | 0              | 0   | 0    | 1     | 0     | 0          | 1     |
| Erysipelas.....    | 0              | 0   | 0    | 0     | 1     | 0          | 1     |
| Totals .....       | 1              | 10  | 16   | 4     | 2     | 0          | 33    |

## NOTIFICATIONS.

For Quarter ending June 30th, 1908.

| Diseases.          | Under<br>1 yr. | 1-5   | 5-15  | 15-25 | 25-65 | Over<br>65 | Total. |
|--------------------|----------------|-------|-------|-------|-------|------------|--------|
| Scarlatina .....   | 0 ..           | 7 ... | 8 ... | 0 ... | 1 ... | 0 ...      | 16     |
| Diphtheria .....   | 0 ...          | 2 ... | 0 ... | 1 ... | 1 ... | 0 ...      | 4      |
| Typhoid Fever..... | 0 ...          | 0 ... | 0 ... | 2 ..  | 1 ... | 0 ...      | 3      |
| Erysipelas .....   | 0 ...          | 0 ... | 0 ... | 1 ... | 3 ... | 2 ...      | 6      |
| Totals .....       | 0 ...          | 9 ... | 8 ... | 4 ... | 6 ... | 2 ...      | 29     |

## NOTIFICATIONS.

For Quarter ending September 30th, 1908.

| Diseases         | Under<br>1 yr. | 1-5   | 5-15   | 15-25 | 25-65 | Over<br>65 | Total |
|------------------|----------------|-------|--------|-------|-------|------------|-------|
| Scarlatina ..... | 0 ...          | 1 ... | 11 ... | 3 ... | 0 ... | 0 ...      | 15    |
| Diphtheria ..... | 0 ...          | 3 ... | 3 ...  | 3 ... | 1 ... | 0 ...      | 10    |
| Erysipelas.....  | 0 ...          | 0 ... | 0 ...  | 0 ... | 2 ... | 0 ...      | 2     |
| Totals .....     | 0 ...          | 4 ... | 14 ... | 6 ... | 3 ... | 0 ...      | 27    |

## NOTIFICATIONS.

For Quarter ending December 31st, 1908.

| Diseases           | Under<br>1 yr. | 1-5   | 5-15  | 15-25 | 25-65 | Over<br>65 | Total. |
|--------------------|----------------|-------|-------|-------|-------|------------|--------|
| Scarlatina .....   | 0 ...          | 3 ... | 5 ... | 3 ... | 1 ... | 0 ...      | 12     |
| Diphtheria ... ..  | 1 ...          | 2 ... | 2 ... | 1 ... | 0 ... | 0 ...      | 6      |
| Typhoid Fever..... | 1 ...          | 0 ... | 0 ... | 1 ... | 3 ... | 0 ...      | 5      |
| Erysipelas .....   | 0 ...          | 0 ... | 0 ... | 1 ... | 0 ... | 1 ...      | 2      |
| Totals .....       | 2 ...          | 5 ..  | 7 ... | 6 ... | 4 ... | 1 ...      | 25     |

## SCARLET FEVER.

|                                               |    |
|-----------------------------------------------|----|
| Number of cases notified .....                | 55 |
| "    "    "    last year .....                | 66 |
| Number of deaths from Scarlet Fever .....     | 0  |
| "    "    "    "    last year .....           | 3  |
| Number of cases removed to hospital .....     | 40 |
| "    "    "    "    last year .....           | 47 |
| Percentage of cases removed to hospital ..... | 72 |
| "    "    "    "    last year .....           | 71 |

Districts from which the cases were removed to hospital:—

|                         |    |
|-------------------------|----|
| West Macclesfield.....  | 14 |
| East Macclesfield ..... | 9  |
| Sutton .....            | 17 |

## QUARTERLY NOTIFICATION.

|    |                                     |           |
|----|-------------------------------------|-----------|
| 12 | were notified during quarter ending | March     |
| 16 | "    "    "    "    "               | June      |
| 15 | "    "    "    "    "               | September |
| 12 | "    "    "    "    "               | December  |

## DISTRICT NOTIFICATIONS.

|    |                   |                    |
|----|-------------------|--------------------|
| 22 | cases occurred in | West Macclesfield. |
| 15 | "    "    "       | East Macclesfield. |
| 18 | "    "    "       | Sutton.            |

## AGES AT WHICH THE DISEASE OCCURRED.

|    |                                             |
|----|---------------------------------------------|
| 15 | children were between 1 and 5 years of age. |
| 32 | "    "    "    5 and 15    "    "           |

The remainder were over these age periods.

The probability of a child acquiring Scarlet Fever diminishes from year to year.

| Year.       | Number<br>Notified. | Number<br>Died. | Number<br>removed<br>to Hospital. | Fatality<br>per cent. |
|-------------|---------------------|-----------------|-----------------------------------|-----------------------|
| 1899 .....  | 303                 | 9               | 46                                | 2.9                   |
| 1900 .....  | 50                  | 1               | 19                                | 2.0                   |
| 1901 .....  | 28                  | 0               | 16                                | 0.0                   |
| 1902 .....  | 125                 | 1               | 96                                | 0.8                   |
| 1903 .....  | 141                 | 9               | 101                               | 6.3                   |
| 1904 .....  | 46                  | 0               | 29                                | 0.8                   |
| 1905 ... .. | 103                 | 6               | 73                                | 5.8                   |
| 1906 .....  | 394                 | 13              | 264                               | 3.2                   |
| 1907 .....  | 66                  | 3               | 47                                | 4.5                   |
| 1908 .....  | 55                  | 0               | 40                                | 0.0                   |
| Totals ...  | 1311                | 42              | 731                               | 2.6                   |

The case mortality of 2.6 per cent. cannot be claimed to be absolutely accurate, owing to the proportion of unrecognised cases of a very mild type, often without skin eruption and with very little desquamation.

The remarkable mildness of the disease is shown by the fact that no deaths were attributed to it during the year. It must, however, be remembered that though a sickness be not unto death, it may leave very many unpleasant reminders of its visit in the shape of damaged ears, hearts, joints, kidneys, and general constitutional debility predisposing to the onset of Tuberculosis.

Of the 18 cases which occurred in the Sutton District, 15 were notified during the last five months of the year. In two instances two cases occurred in one house. Twelve of these 15 cases occurred amongst school-children, two were under school age, and one above. Several of these Sutton cases occurred in children attending London Road School (St. Georges Branch), and I am strongly of opinion that there were one or two undiscovered cases of Scarlet Fever, either at the school or playing with the children in the neighbourhood.

On September 8th, one child was sent home from school on account of not being well. The head teacher at once reported the case, and when it was examined later in the day, it was

found to have the rash of Scarlet Fever, well-out, all over the body. Such a case is quite sufficient to start an epidemic which a little parental care could have readily averted.

It is this lack of consciousness on the part of parents which is so difficult to overcome. Such conduct is nothing less than ignorant though culpable carelessness. The child was "not bad at all," "had only a 'slight cold,' " or a "little sore throat," and slight cases of this kind are the chief cause of the spread of the disease in school.

The teacher should continually point out that the mildest case of Scarlet Fever is just as likely to spread the disease as the most severe. The fact is, that we cannot hope to check the spread of the infection in schools until we can secure the co-operation of the mother, and this will only come to pass when a much higher ethical standard of conduct than at present prevails, becomes the rule.

It is no use laying down rules and principles for preventing the spread of infection until the "golden rule" is observed, which will ensure regard for all other rules.

#### DIPHTHERIA.

|                                           |    |
|-------------------------------------------|----|
| Number of cases notified .....            | 39 |
| "    "    "    last year .....            | 47 |
| "    of deaths    "    .....              | 9  |
| "    "    "    last year .....            | 4  |
| Number of cases removed to Hospital ..... | 15 |

Districts in which the cases have occurred :—

|                         |    |            |   |         |
|-------------------------|----|------------|---|---------|
| West Macclesfield.....  | 18 | cases with | 4 | deaths. |
| East Macclesfield ..... | 18 | "    "     | 4 | deaths. |
| Sutton .....            | 3  | "    "     | 1 | death.  |

#### QUARTERLY NOTIFICATIONS.

|                           |    |                 |
|---------------------------|----|-----------------|
| Quarter ending March..... | 19 | cases notified. |
| "    "    June .....      | 4  | "    "          |
| "    "    September ..... | 10 | "    "          |
| "    "    December .....  | 6  | "    "          |

During the year, the Local Government Board required a special report to be made on the Diphtheria outbreak, and your Medical Officer of Health prepared the Report, (a copy of which is appended to this Report) and contains much information relative to the incidence of Diphtheria in the Borough during the first quarter of the year, when it reached its maximum degree of prevalence, and was at that time merely a continuance of the disease which had been very prevalent during the last quarter of 1907.

261 swabs from the throat were sent to the Lister Institute for examination. In 68, the Diphtheria Bacillus was found. In 6 of these Hoffman's Pseudo-Diphtheria Bacillus was found. And in 29 others, Hoffman's Pseudo-Diphtheria Bacillus was found alone.

15 were removed to Hospital, 3 of which proved fatal; two of these cases, aged 4 years and 5 years respectively, dying within 24 hours of admission.

Diphtheria antitoxin of 2,000 or 4,000 Behring-Ehrlich units per c.c. together with the loan of Serum Syringe, may be obtained, free of cost for poor people, on application by a medical practitioner at any hour of the day or night, to the Medical Officer of Health, for curative or immunising purposes. This Serum is always on hand at the Health Office, Town Hall, the Isolation Hospital, or, in cases of emergency, at the residence of the Medical Officer of Health.

There is no possible excuse for practitioners not using this invaluable remedy at the earliest moment. Outfits for taking swabs from suspicious throats or noses can just as readily be obtained, but practitioners are strongly urged *not* to wait for a report by telegram of the swab before using antitoxin, but *at once* inject 4,000 units in all suspicious cases, then take a swab and notify provisionally to the Medical Officer of Health.

*One negative swab is valueless.* Only after two swabs, carefully taken can a negative bacteriological examination be considered of any weight. It is important in these cases to swab the nose.

Medical practitioners are strongly urged to use the swabs

freely provided, in every case where there is the smallest reason to suspect the presence of Diphtheria.

*Every sore throat should be considered to be infectious until it is proved not to be so.*

Diphtheria may be so slight that the patient complains of but little.

The role of "carrier cases" is important. It is always to be remembered that persons may be the hosts of virulent Diphtheria Bacilli, yet themselves present few or no signs of the organism. Such cases amongst school children are fruitful sources of school epidemics of diphtheria, and in such cases, it is only by swabbing the throats of all the children present in a suspected school or class that the guilty individual may be detected.

#### DIPHTHERIA AND MEMBRANOUS CROUP SINCE 1899.

| Year.      | Number<br>Notified. |     | Number<br>Died. |     | No. removed<br>to Hospital. |     | Fatality<br>per cent. |
|------------|---------------------|-----|-----------------|-----|-----------------------------|-----|-----------------------|
| 1899 ..... | 14                  | ... | 0               | ... | 0                           | ... | 0                     |
| 1900 ..... | 16                  | ... | 5               | ... | 4                           | ... | 31                    |
| 1901 ..... | 24                  | ... | 3               | ... | 7                           | ... | 12                    |
| 1902 ..... | 14                  | ... | 1               | ... | 5                           | ... | 7                     |
| 1903 ..... | 20                  | ... | 3               | ... | 7                           | ... | 15                    |
| 1904 ..... | 7                   | ... | 2               | ... | 3                           | ... | 28                    |
| 1905 ..... | 14                  | ... | 6               | ... | 3                           | ... | 42·8                  |
| 1906 ..... | 21                  | ... | 7               | ... | 4                           | ... | 33·3                  |
| 1907 ..... | 47                  | ... | 4               | ... | 24                          | ... | 8·5                   |
| 1908 ..... | 39                  | ... | 9               | ... | 15                          | ... | 23·0                  |

#### ENTERIC OR TYPHOID FEVER.

|                                |    |
|--------------------------------|----|
| Number of cases notified ..... | 9  |
| " " " last year.....           | 11 |
| Number of deaths notified..... | 3  |
| " " " last year.....           | 3  |

Four of the cases were removed to Hospital.

3 cases were notified from West Macclesfield with 1 death.

|   |   |   |   |   |        |   |   |   |   |
|---|---|---|---|---|--------|---|---|---|---|
| 3 | „ | „ | „ | „ | East   | „ | „ | 1 | „ |
| 3 | „ | „ | „ | „ | Sutton |   | „ | 1 | „ |

### ENTERIC FEVER SINCE 1899.

| Year.       | Number<br>Notified. | Number<br>Died. | No. removed<br>to Hospital. | Fatality<br>per cent. |
|-------------|---------------------|-----------------|-----------------------------|-----------------------|
| 1899 ... .. | 35                  | ... 4           | ... 7                       | —...14·               |
| 1900 ... .. | 62                  | ... 10          | ... 13                      | —...16·               |
| 1901 ... .. | 33                  | ... 2           | ... 11                      | —... 6·               |
| 1902 ... .. | 26                  | ... 3           | ... 4                       | 11...11·              |
| 1903 ... .. | 21                  | ... 3           | ... 0                       | 14...14·              |
| 1904 ... .. | 12                  | ... 2           | ... 0                       | 16...16·              |
| 1905 ... .. | 13                  | ... 0           | ... 0                       | 0... 0·               |
| 1906 ... .. | 13                  | ... 1           | ... 0                       | 7... 7·               |
| 1907 ... .. | 11                  | ... 3           | ... 0                       | 27...27·              |
| 1908 ... .. | 9                   | ... 3           | ... 4                       | 33...33·              |
| Total.....  | 235                 | ... 31          | ... 39                      | 15·4...14·4           |

### WIDAL REACTION.

23 specimens were sent by medical practitioners to the Lister Institute for examination, when Enteric Fever was suspected.

In 8, a positive reaction was obtained.

In 1; a partial reaction was obtained.

In 1, a doubtful reaction was obtained.

In no case was para-typhoid infection found.

The peculiarly insidious nature of Enteric Fever and its close resemblance to influenza in its early stage, was responsible for the spread of the disease to three cases, one of which ended fatally.

One woman had assisted in nursing a patient said to have pneumonia who subsequently died. She shortly after sickened with Enteric Fever, and a similar history was obtainable in two other cases. The early diagnosis of Enteric Fever is much facilitated by the use of the Widal Reaction, although it may be quite absent during the first week of the fever in some cases. A negative reaction during the first week of fever should not be relied on, but a repeat sent later.

The principal channels of infection by the sufferer are the stools, in about 25 per cent. of cases by the urine, and occasionally by the sputum. The urine has no doubt played a great part in the spread of the disease.

#### LENGTH OF INFECTIVITY IN TYPHOID FEVER.

There is evidence that the germs of typhoid disappear from the stools when the fever has subsided, but that the bacillus may be found in urine for months after. It is probable that the urine may readily lead to the infection of bed-clothes and body-linen.

In some few cases, typhoid germs gain access to the gall bladder and continue to be discharged in the bile for many months or years. Such persons may appear in the best of health, and yet be discharging infectious material in the stools.

Such "chronic typhoid carriers" are a grave source of danger in public institutions, especially where they are engaged in the handling and preparation of food, and when they are not of scrupulously clean habits and are neglectful of brushing the nails of the hands.

#### ERYSIPELAS.

|                           |     |     |     |     |     |    |
|---------------------------|-----|-----|-----|-----|-----|----|
| Number of cases notified  | ... | ... | ... | ... | ... | 11 |
| Number of deaths notified | ... | ... | ... | ... | ... | 1  |

5 cases occurred in West Macclesfield.

5       "       "       "       East Macclesfield.

1 case       "       "       Sutton.

The one death occurred in East Macclesfield.

It is now generally believed that the ordinary pus-producing germ (*streptococcus pyogenes*) and the erysipelas germ are identical.

It is difficult to see that any material advantage accrues to the community from notification of this disease. It has probably a direct casual relationship to a few cases of Puerperal Fever, but otherwise, its association with preventable disease is not clear.

### PUERPERAL FEVER.

No notifications of this disease were received during the year, nor were any deaths attributed to this disease.

It is defined as including "Septicaemia," "pyaemia," "septic peritonitis," "septic metritis," and other acute septic inflammations in the pelvis, occurring as the direct result of child-birth.

I believe a number of cases occur which are never notified, and a much more stringent watch will, in future, be kept on midwives in this matter, and failure to notify will be at once reported to the Central Midwives' Board.

## THE ISOLATION HOSPITALS.

|                                     |    |   |                     |
|-------------------------------------|----|---|---------------------|
| In Hospital, January 1st, 1908..... | 7  | { | Scarlet Fever... 1  |
|                                     |    |   | Diphtheria ..... 6  |
| Admitted during the year 1908.....  | 83 | { | Scarlet Fever ...63 |
|                                     |    |   | Diphtheria .....16  |
|                                     |    |   | Enteric Fever ... 4 |

Included in the above figures are 24 cases from the Rural District of Macclesfield, viz :—

|                                     |     |     |                     |
|-------------------------------------|-----|-----|---------------------|
| Scarlet Fever                       | ... | ... | 23                  |
| Diphtheria ...                      | ... | ... | 1                   |
| Discharged during 1908 ...          | ... | ... | 79 cases            |
| Died                                | ... | ... | 4 „                 |
| In hospital January 1st, 1908 ..... | 7   | {   | Scarlet Fever ... 4 |
|                                     |     |     | Diphtheria ..... 2  |
|                                     |     |     | Enteric Fever ... 1 |

## DEATHS.

|                |     |     |   |
|----------------|-----|-----|---|
| Enteric Fever  | ... | ... | 1 |
| Diphtheria ... | ... | ... | 3 |

The following table shows the numbers admitted since 1899 :

| Year              | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 |
|-------------------|------|------|------|------|------|------|------|------|------|
| Scarlet Fever ... | 19   | 16   | 96   | 101  | 29   | 76   | 270  | 48   | 40   |
| Diphtheria .....  | 4    | 7    | 5    | 8    | 3    | 3    | 4    | 26   | 15   |
| Enteric Fever...  | 14   | 11   | 4    | 0    | 0    | 0    | 0    | 0    | 4    |
| Small-pox .....   | 0    | 0    | 1    | 22   | 52   | 6    | 0    | 0    | 0    |

|                       |                     |     |
|-----------------------|---------------------|-----|
| Totals for 9 years... | Scarlet Fever ..... | 689 |
|                       | Diphtheria .....    | 75  |
|                       | Enteric Fever.....  | 33  |
|                       | Small-pox .....     | 81  |

## COST OF FOOD AND NURSING.

|                        | 1908 |    |    |     | 1907 |    |    |     | 1906 |    |    |
|------------------------|------|----|----|-----|------|----|----|-----|------|----|----|
|                        | £    | s. | d. |     | £    | s. | d. |     | £    | s. | d. |
| Groceries .....        | 71   | 6  | 3  | ... | 76   | 16 | 7  | ... | 137  | 17 | 3  |
| Bread, &c .....        | 17   | 9  | 10 | ... | 15   | 18 | 9  | ... | 40   | 15 | 0  |
| Fish and Rabbits ..... | 15   | 10 | 0  | ... | 117  | 12 | 10 | ... | 37   | 16 | 8  |
| Butchers Meat .....    | 66   | 5  | 5  | ... | 73   | 7  | 1  | ... | 141  | 12 | 5  |
| Vegetables .....       | 15   | 19 | 11 | ... | 18   | 3  | 5  | ... | 20   | 19 | 5  |
| Milk and Eggs.....     | 65   | 11 | 3  | ... | 57   | 14 | 3  | ... | 133  | 15 | 6  |
| Total.....             | £252 | 3  | 0  |     | £259 | 12 | 11 |     | £512 | 16 | 3  |

The patients, maids and nurses were in hospital 6122 days.

The cost of food per head per day works out at ninepence half-penny. This is a low figure when compared with other hospitals.

The cost of hiring nurses covers £27 5s. 9d.; against £24 6s. 9d. last year, and £332 18s. 5d., the year before.

Your own Nurses cost you £132 18s.

The following is a statement of the accommodation now provided at your Isolation for patients. nurses, maids, &c.

|                            |           |   |                        |
|----------------------------|-----------|---|------------------------|
| Total number of beds ..... | 52        | { | 12 Small-pox hospital. |
|                            |           |   | 16 New brick hospital. |
|                            |           |   | 12 Humphreys hospital. |
|                            |           |   | 12 Ducker hospital.    |
|                            |           |   | —                      |
|                            | Total ... |   | 52                     |
|                            |           |   | —                      |

These beds are allocated as follows :

2 in Small-pox reserved for Bollington.  
 14 in General Isolation Hospital reserved for Macclesfield Rural District.  
 4 in General Hospital reserved for Bollington Urban Council.

—  
 20 reserved beds  
 —

This leaves you with only 22 beds for your own area, exclusive of 10 in the Small-pox Hospital.

The populations of the areas from which you now draw cases are as follows :—

|                              |     |     |        |
|------------------------------|-----|-----|--------|
| Macclesfield Borough         | ... | ... | 34,624 |
| Macclesfield Rural District  | ... | ... | 16,676 |
| Bollington Urban District... | ... | ... | 5,245  |
| Total                        |     |     | 56,545 |

As two of the Districts are Urban Districts, it is obvious that the accommodation provided is too little, especially for the Borough. One bed per 1000 of population is the minimum requirement for Urban Districts.

#### NUMBER OF PERMANENT STAFF AND ACCOMMODATION FOR SAME.

The number of nurses permanently employed is as follows :

|                                |
|--------------------------------|
| 1 Matron                       |
| 1 Charge Nurse                 |
| 2 Staff Nurses                 |
| 1 2nd year probationer         |
| 1 1st year probationer         |
| 1 probationer recently engaged |
| —                              |
| 7 inclusive of matron          |
| —                              |

This gives an average of one nurse to 5·4 patients. In general hospitals it is reckoned that one nurse is required for three to four patients. It has also to be remembered that in an Isolation Hospital the patients suffering from the different infectious diseases have to be kept rigidly apart, so that one patient might on occasion require two nurses, one day and one night.

RESIDENT SERVANTS.

- 1 Cook, general  
1 Laundry maid  
1 Ward maid  
1 between maid  
1 porter (resides in cottage)

Occasionally a non-resident charwoman is employed.

### ACCOMMODATION FOR RESIDENT STAFF.

- 4 bedrooms in matron's cottage... { 1 double bedded.  
3 single „

3 bedrooms in Contact Cottages.

In addition 3 or 4 of the maids have had to sleep in the Small-pox Hospital, or in a small ward of the Isolation Hospital.

The double bedded room in the matron's cottage is much too small, and has no fireplace. One of the single bedrooms is also much too small and has no fireplace.

The accommodation includes one living room only of small dimensions, which serves as Matron's sitting room, nurses sitting and dining room and Committee room. It is, I trust, quite plain that the accommodation for the resident Staff is very much below what it ought to be, and does not conduce either to the health or efficient management of the nurses and maids.

The time has now arrived when the future extension of the hospital must be seriously considered.

The old Ducker Hospital erected 1888, has lasted as long as patching and painting will make it last, and without its 12 beds we could not possibly provide the accommodation required of us.

The Nursing accommodation requires extension, and it does appear that if a loan could be obtained for the erection of a Nurses' home, and the replacement of the old Ducker Hospital by a permanent brick building, it would in the end prove much more economical from the ratepayers point of view, and much more satisfactory from the administrative standpoint.

In the event of an outbreak of Small-pox, we should be placed in a position of great difficulty as to finding suitable housing for our nurses, since in that event the "contact cottages" could not, as at present, be used as dormitories for the nurses from the general Isolation Hospital.

### SCARLET FEVER CASES.

Number admitted ... 63, (inclusive of 3 from Rural District).

No deaths.

### COMPLICATIONS.

|                 |     |     |     |     |         |
|-----------------|-----|-----|-----|-----|---------|
| Ear Discharge   | ... | ... | ... | ... | 4 cases |
| Abcess in neck  | ... | ... | ... | ... | 1 case  |
| Albuminuria     | ... | ... | ... | ... | 2 cases |
| Rheumatism      | ... | ... | ... | ... | 1 case  |
| Nasal Discharge | ... | ... | ... | ... | 1 case  |

### RETURN CASES.

By return case is meant the occurrence of another case of Scarlet Fever in a house during the period shortly following the return of a case from Hospital or from Isolation.

Such cases may develop:—

- (1) Within the incubation period of the disease.
- (2) Beyond the time of the usual incubation period.

Of the cases treated in the Hospital who resided in the Borough, only one gave rise to a second case, and that case occurred 14 days after the return home of the patient, i.e., beyond the incubation period of the disease, and therefore presumably developed after the patient's discharge from Hospital.

In the cases of four children discharged into the Rural District, an unusual series of cases followed.

Edith A. discharged, 18th January, 1908. On 6th March May A. admitted into Hospital. May A. discharged, 25th April. On May 6th, Harriett A. admitted (or, 11 days after May's discharge. Harriett A. was discharged on June 23rd, and on the 4th July. Frances A. was admitted, again 11 days after the discharge of the last case.

On March 5th, a child from another family—E. D., was admitted; and discharged on April 15th. On April 30th, W. D., sister to E. D., was admitted.

Inasmuch as the D. & A. families lived some miles apart, it might seem as if there was no explanation possible but hospital-carried infection. Closer enquiry elicited the fact that the families were on friendly terms, and that at one of the houses a servant-maid was said to have had "Measles" whilst the first case of the series was in Hospital. Another member of one of the families during the same period, had been very ill for some six weeks with "Rheumatism."

Although these cases, which were not under medical treatment, may have been Scarlet Fever, and may have accounted for the handing on of the infection, it cannot be denied that "Return Cases" do occur. In the case of Scarlet Fever it is usual to get about two per cent. of such cases. Careful examination of the patient recently discharged, will, in nearly all these instances, reveal the presence of rhinorrhœa or otorrhœa, which has developed soon after leaving the Institution.

We endeavour to classify our cases, as far as possible, and to keep the acute cases separate from those who have been in some time.

We endeavour to keep all the children who develop discharging ears, noses, &c., apart from the others, and instruct the nurses to use rubber gloves in handling the patients. Such gloves to be sterilised before passing from one patient to another, each patient to have a separate nozzle for ear and throat douching, and each nozzle to be boiled immediately after use.

We surround the bed of recently-admitted patients with sheets soaked in Lysol Solution so as to limit, as far as possible, any spread of fresh infection into the ward.

It is, I believe, by considering each case of Scarlet Fever as a possible source of infection to other cases, that we shall reduce our Complications and Return Cases.

## DIPHTHERIA.

|                      |    |
|----------------------|----|
| Number admitted..... | 16 |
| Number died .....    | 3  |

All these deaths occurred within 24 hours of admission, one within four hours: in this case a tracheotomy had been performed outside. All the fatal cases died from toxamia and were in young children.

Where antitoxin in large doses is administered early, the number of deaths is reduced enormously.

We do not wait for bacteriological diagnosis, but after taking a swab from the throat, in all cases *forthwith* inject 4,000 units of antitoxin; in more severe cases, 8,000 units are given; and in laryngeal and late cases, 16,000 or more units are given into a vein. I have seen this procedure produce results little short of miraculous. Still, that is no excuse for not administering antitoxin at the earliest possible moment.

No patient, suffering from Diphtheria, is discharged from hospital until two consecutive negative swabs have been obtained from the throat. We have not had any "Return Cases" of Diphtheria, and this I largely attribute to the insistence on the two negative swabs carefully taken.

## ENTERIC FEVER.

|                            |   |
|----------------------------|---|
| Number of admissions ..... | 4 |
| ,, ,, deaths .....         | 1 |

The one death occurred in a woman admitted from the Union Hospital. She was in a very feeble and half-starved condition, and succumbed to exhaustion.

## NEW ISOLATION WARDS.

The New Wards were opened during the latter part of the year by the Chairman of the Health Committee, Mr. Alderman Pickford, and since that date it has been fully occupied. I sincerely trust we may be able to replace the old Ducker Hospital with a similar or improved structure, the need for which I have already pointed out.

## SMALL-POX HOSPITAL.

This structure has been kept in readiness but has not been needed during the year, no cases of Small-pox having occurred.

## DISINFECTION.

The Thresh Current Steam Disinfector continues to give us satisfaction.

The following table shows the amount of material disinfected therein.

|                                                                         |                  |
|-------------------------------------------------------------------------|------------------|
| Number of Beds disinfected by Steam .....                               | 411              |
| Number of Pillows disinfected by Steam .....                            | 737              |
| Number of Blankets and Counterpanes<br>disinfected .....                | 909              |
| Number of Articles of Clothing and<br>Carpets disinfected by Steam..... | 2569             |
| Total .....                                                             | <hr/> 4626 <hr/> |

## ROOM DISINFECTION.

We still use formic aldehyde as our means of surface disinfection. Formalin solution—which is forty per cent. solution of formic aldehyde in water—is the particular preparation used in five per cent. solution in water, and is freely sprayed on walls, floors, and ceilings.

## DISINFECTANTS.

We have continued to supply a Disinfecting Fluid, (guaranteed to have a carbolic acid co-efficient of 15-Rideal-Walker test) free on application at the Town Hall. Lime-wash brushes are loaned for purposes of white-washing.

I am no strong advocate for the indiscriminate distribution of disinfectants to the general public. I think a great deal of public money is wasted thereby, and that little good results. We need soap and water, and plenty of “elbow grease,” and less “disinfecting.”

It is simply ridiculous to supply 12,897 lots of disinfectants without any discrimination. On the other hand, little fault can be found with the free supply of Lime for white-washing, and brushes for applying the same. During the year, 1,158 packets of Lime were supplied, and 767 brushes lent for applying it.

Unless a disinfectant is supplied with a guarantee as to its efficiency in terms of carbolic acid, its value must be taken as being uncertain, and in a very many cases, quite unreliable, and calculated to give a false sense of security to the user.

### WATER SUPPLY.

The Water supplied to the Borough continues to be abundant and of good quality. The service is constant and the pressure good.

About 30 gallons per head per day has been the consumption during the last year.

The sources of supply are mainly the Town's Water, collected at Langley and filtered at the Buxton Road Waterworks; a few houses in the neighbourhood of Hollin Lane derive their supply of water from the main running from Langley to the filters, such water is, of course, unfiltered. A portion of Hurdsfield is supplied from a private source.

A sample of water sent from the Town's supply for bacteriological examination was reported as being "quite satisfactory from a bacteriological point of view." The unfiltered water supplied around Hollin Road and also the Hurdsfield water was reported "not being satisfactory from a bacteriological point of view." The trouble in the case of the Hurdsfield supply seems to consist in defective filtration and storage.

### HOUSING OF THE WORKING-CLASSES ACT, 1890 AND 1903.

Part II. of this Act requires the Medical Officer of Health to make an official representation to his authority, that a dwelling-house or houses are in a state so dangerous or injurious to health as to be unfit for human habitation. The Sanitary Authority may then direct proceedings to be taken

against the owner before a court of summary jurisdiction, and the court may thereupon make a Closing Order and may inflict a penalty on the owner.

Under the Act of 1903, if, in the opinion of the Local Authority, any dwelling-place is not reasonably capable of being made fit for human habitation, it is not necessary to serve notices on the owner or occupier of the premises to abate the nuisance before applying for a Summons for a Closing Order. (Section 8.)

#### PROCEEDINGS TAKEN DURING THE YEAR.

At a meeting of the Health Committee, held on May 21st, the Medical Officer of Health's attention was called to delapidated and insanitary property in Derby Street, and he was asked to report thereon. At a meeting held on June 18th, he represented the following dwelling-houses to be in a state so dangerous, or injurious to health, as to be unfit for habitation, viz :— Nos. 47, 49, 51, 63, 65, 67, and 69, Derby Street, it was

RESOLVED—That it is expedient to obtain an Order for the demolition of the said dwelling-houses, and that notice of this resolution be served on the owners thereof, and that the further consideration of this resolution shall take place on August 6th next.

On June 18th, the deputy Town Clerk submitted a representation made by the Medical Officer of Health, under the Housing of the Working-Classes Act, 1890—1903, certifying that the following dwelling-houses, viz :—

Nos 2, 3, 4, 5, 6, 7, and 8, Court 1 Wood Street,

No. 12, Waterside,

Nos. 3, and 4, Court 2, Waterside,

Five un-numbered cottages at the rear of Court 15, Bank Street.

Nos. 1, 2, and 3, Court 6, Bank Street,

Nos. 1, 2, and 3, Court 2, Lower Bank Street,

Nos. 8,—14, Knight's Brow,

were in a state so dangerous or injurious to health as to be

unfit for human habitation, and the representation having been considered, it was

**RESOLVED**—That in the opinion of this Committee, the said dwelling-houses are not reasonably capable of being made fit for human habitation, or that they are in such a state that the occupation thereof should be immediately discontinued, and that proceedings be taken before the Magistrates to obtain Closing Orders, in accordance with Section 8 of the Housing (Working Classes) Act, 1903.

The Deputy Town Clerk also submitted a representation made by the Medical Officer of Health, under the Housing of the Working Classes Acts, 1890—1903, certifying that the following dwelling-houses, viz.:—

Nos. 10,—16 Knight Street,

Nos. 2, 3, and 4, Court 14, Bank Street,

Nos. 8, 10, 12, and 14, Bank Street,

Nos. 3, 5, 7, 9, 11, 13. and 15, Lower Exchange Street,

Nos. 1, 2, 3, 4, and 5, Soho Place,

Nos. 6, to 15, Court 1, Heapy Street,

Nos. 1, 3, and 5, Short Street, off 108 Steps,

were in a condition so dangerous or injurious to health as to be unfit for human habitation, and the matter having been considered, it was

**RESOLVED**—That notice be given by the Town Clerk to the owners in form A prescribed by Order of the Local Government Board under the Housing of the Working Classes Acts 1890—1903, requiring them, within two months from the service of the notice to make the said dwelling-houses fit for human habitation.

At a Meeting of the Health Committee, held on August 8th—

The Town Clerk submitted a representation by the Medical Officer of Health under the Housing of the Working Classes Acts, 1890—1903, certifying that the following dwelling-houses viz.:—Nos. 47, 49, 51, 67 and 69, Derby Street, Macclesfield,

were in a condition so dangerous or injurious to health as to be unfit for human habitation, and the representation having been considered, it was

**RESOLVED**—That notice be given by the Town Clerk to the owners in form A prescribed by Order of the Local Government Board, under the Housing of the Working Classes Acts, 1890—1903, requiring them within two months from the service of the notice to make the said dwelling-houses fit for human habitation.

The Town Clerk reported that the Magistrates had made Closing Orders under the Housing of the Working Classes Acts, in connection with the following properties, viz :—

#### Houses.

Nos. 2, 3, 4, 5, 6, 7 and 8 Court 1 Wood Street.

No. 12 Waterside.

Nos. 3 and 4 Court 2 Waterside.

Nos. 1, 2 and 3 Court 6 Bank Street.

With reference to Nos. 1, 2 and 3 Court 2 Lower Bank Street, the Magistrates refused to make an Order but required the owner to put the property in sanitary condition.

The case of property Nos. 8—14 Knight's Brow was adjourned for 28 days in order that a scheme can be submitted for putting them in order.

The case of five un-numbered cottages at the rear of Court 15 Bank Street was adjourned for 14 days.

At a Meeting of the Health Committee, held on September 3rd.

The Town Clerk submitted particulars of the improvements proposed to be made by the owner at dwelling-houses Nos 8—14 Knight's Brow (in respect of which proceedings had been taken before the Magistrates and the matter adjourned) in order to comply with the statutory notices served under the Housing of the Working Classes Act, 1903. and the Medical Officer of Health having stated that the proposed improvements would

make the property satisfactory to him, the Town Clerk was requested to write to the owner stating that if he will execute the work before the expiration of the period allowed by the Magistrates the summons will be withdrawn.

The Town Clerk also submitted particulars of the improvements proposed to be made at property Nos. 6—15 Court 1 Heapy Street in order to comply with the statutory notices served on the owner under the Housing of the Working Classes Acts, 1899—1903, when after consideration, it was

**RESOLVED**—That the Town Clerk write to the owner asking him to convert the single houses into through houses in addition to the proposed improvements.

At a Meeting of the Health Committee, held on September 17th.

A letter from Mr. R. F. Broomfield, of Ashton-under-Lyne, with reference to property Nos. 6—15 Court 1 Heapy Street, was read and referred to the Medical Officer of Health for his consideration and report thereon.

The Town Clerk reported that the notices served under the Housing of the Working Classes Acts, in connection with the following properties, had expired, viz :—

Nos. 10—16 Knight Street.

Nos. 1, 2, 3, 4 & 5, Soho Place.

Nos. 1, 3, and 5, Short Street, off 108 Steps.

when it was

**RESOLVED**—That proceedings be taken before the Magistrates under the direction of the Town Clerk, for closing orders to be obtained in connection with the above-named properties

#### COMMON LODGING HOUSES.

We have several Common Lodging Houses in the neighbourhood of Derby Street and Stanley Street, all are more or less unsuitable for the purpose they serve.

At a Meeting of the Cleansing Sub-committee held on

June 19th, it was resolved that it be a strong recommendation to the Health Committee to consider the desirability of erecting a Model Lodging House.

### MORTUARY.

I am glad to report that a small public mortuary has been erected in Hawthorn Street, and suitably fitted up for the reception of a dead body, and for the performance of post mortem examinations. It is a single room with suitable table, water supply, instruments, &c.

It is a pity that the place was not made a little larger and more commodious. It has been in use several times during the year, and has already proved itself a valuable adjunct to the sanitation of the town.

### THE PRIVY-MIDDEN.

| Year       | No. of<br>Privy-<br>Closets. | No. of<br>Waste-water<br>Closets. | No. of<br>Clean-water<br>Closets. |
|------------|------------------------------|-----------------------------------|-----------------------------------|
| 1897 ..... | 4,319                        | ...                               | 269                               |
| 1898 ..... | 4,157                        | ...                               | 301                               |
| 1899 ..... | 3,942                        | ...                               | 309                               |
| 1900 ..... | 3,662                        | ...                               | 309                               |
| 1901 ..... | 3,825                        | ...                               | 309                               |
| 1902 ..... | 3,705                        | ...                               | 309                               |
| 1903 ..... | 3,569                        | ...                               | 309                               |
| 1904 ..... | 3,397                        | ...                               | 309                               |
| 1905 ..... | 3,222                        | ...                               | 309                               |
| 1906 ..... | 3,053                        | ...                               | 309                               |
| 1907 ..... | 2,628                        | ...                               | 309                               |
| 1908 ..... | 2,334                        | ...                               | 309                               |

The number of privy-middens converted into W.C.'s and Dry Ash places has been 294 against 425 during the previous year.

| Year       | Conversions. |
|------------|--------------|
| 1908 ..... | 294          |
| 1907 ..... | 425          |
| 1906 ..... | 169          |
| 1905 ..    | 165          |
| 1904 ..... | 182          |
| 1903 ..... | 136          |
| 1902 ..... | 120          |

### SCAVENGING AND NIGHTSOIL REMOVAL.

| Year       | No. of Loads. | Expenditure. |
|------------|---------------|--------------|
|            |               | £ s. d.      |
| 1888 ..... | 10,338 .....  | 821 18 7     |
| 1889 ..... | 10,295 .....  | 933 16 4     |
| 1890 ..... | 8,523 ..      | 847 13 9     |
| 1891 ..    | 10,187 .....  | 1,328 9 10   |
| 1892 ..... | 9,957 .....   | 1,521 8 6    |
| 1893 ..... | 10,975 .....  | 1,837 1 9    |
| 1894 ..... | 12,733 .....  | 1,714 15 8   |
| 1895 ..... | 12,289 .....  | 1,652 6 8    |
| 1896 ..... | 12,407 .....  | 1,807 12 6   |
| 1897 ..... | 13,283 .....  | 2,006 2 3    |
| 1898 ..... | 13,619 .....  | 2,104 2 4    |
| 1899 ..... | 13,040 .....  | 2,169 16 10  |
| 1900 ..... | 12,057 .....  | 2,093 10 0   |
| 1901 ..... | 11,215 ..     | 2,425 14 2   |
| 1902 ..... | 12,532 .....  | 2,334 10 9   |
| 1903 ..... | 11,912 .....  | 2,260 10 5   |
| 1904 ..... | 10,371 ..     | 1,999 6 4    |
| 1905 ..... | 11,082 .....  | 1,895 3 5    |
| 1906 ..... | 11,895 .....  | 1,841 9 1    |
| 1907 ..... | 11,921 ...    | 2,128 7 8    |
| 1908 ..... | 10,978 .....  | 2,213 14 2   |

I sincerely trust that in the interest of the Public Health there may be no slackening in the policy of ridding the town of the remaining privy-middens. There are still many very foul ones in poor quarters of the town, where the conditions of life press heavily enough without the additional daily burden of close company with a stinking mass of putrefying filth, the periodical emptyings of which, spread the savour broadcast and poison the surface of the ground for yards around; whilst the shoutings of the scavengers and the rattle of the carts and barrows make the night hideous with sounds and stench.

### DRY ASH BINS.

I trust arrangements will be made for emptying these bins at least twice a week. Here again, I must point out that dry ash bins, filled partially with decomposing vegetable matter, may become a serious nuisance, particularly during the warm weather.

Again, I find in many instances that though the dry ash places have been provided, no bins with lids attached are supplied, and that, consequently, the ashes, garbage, &c., are thrown on the floor of the ash place. This is not complying with the notice of the Health Authority which requires that covered bins must be provided. I suggest that proceedings should be taken against persons not complying with the orders of the Health Committee in this important matter.

### BACK YARDS.

The question of insanitary back yards is almost of equal importance with privy-midden conversion, and I feel sure that members of the Cleansing Committee must have been struck with the appearance of many of the back yards, visited on their perambulation. Badly paved or not paved at all, broken flags, pools of sewage and waste water, yard gulleys broken or defective, slopstone pipes discharging into or on the house wall were found in many cases.

Again, the tenants in some cases block up the limited space by building rabbit-hutches, hen-pens, kennels, &c., and shut out the small amount of light and air which ought to gain access to the back of the house.

This is a most important matter, and I trust that the

Sanitary Authority will insist on the yards being properly paved and drained, and the removal of all erections which interfere with the free circulation of air at the back of dwelling-houses.

### STREET SEWERING.

Last year I gave a list of streets situated in East Macclesfield which were not sewered, and which the Cleansing Committee selected as in their opinion requiring sewerage, more urgently than others.

Of the 21 streets or portions of streets so selected, only four appear to have received any attention, viz :—

- (1) BANK STREET from Swettenham Street to Black Road.
- (2) CANAL STREET from Baths to East end.
- (3) 108 STEPS top part.
- (4) BLAKELOW ROAD from Buxton Old Road to the new property, this latter sewer is in hand.

The following streets not included in the list referred to have been sewered during the year.

Exchange Street East.

Little Street.

Pearle Street.

Many of the streets included in last years list are in populous neighbourhoods where the need for a sewer is great, and the absence of one is a danger to the health of the inhabitants of such streets. I trust the matter may receive attention without further delay.

## NEW HOUSES ERECTED.

12 new dwelling houses were erected during the year 1908.

The following is a list of new dwelling houses erected since 1900.

| Year. | No. of<br>New dwelling houses. |     |     |    |
|-------|--------------------------------|-----|-----|----|
| 1900  | ...                            | ... | ... | 43 |
| 1901  | ...                            | ... | ... | 27 |
| 1902  | ...                            | ... | ... | 13 |
| 1903  | ...                            | ... | ... | 34 |
| 1904  | ...                            | ... | ... | 42 |
| 1905  | ...                            | ... | ... | 35 |
| 1906  | ..                             | ... | ..  | 30 |
| 1907  | ...                            | ... | ... | 13 |
| 1908  | ...                            | ... | ..  | 12 |

I append the Special Report on Diphtheria which was prepared at the request of the Local Government Board; also the Sanitary Inspector's Report and Report of the working of the Factory and Workshops Act, together with the usual statistical tables of the Local Government Board.

I have the honour to remain, Gentlemen,  
Your obedient Servant,

**JOHN HEDLEY MARSH,**

Medical Officer of Health.

# **SPECIAL REPORT**

ON

## **DIPHTHERIA**

DURING JANUARY, FEBRUARY, AND MARCH, 1908.

SUBMITTED TO THE

LOCAL GOVERNMENT BOARD, OCTOBER, 1908.

— :: —

TOWN HALL,

MACCLESFIELD.

SIR,

### **DIPHTHERIA.**

I beg to submit the following Report on the prevalence and incidence of Diphtheria during the months of January, February, and March, 1908.

The chart herewith appended, clearly shows that the period now under consideration, was merely a continuation of the epidemic conditions which had prevailed during the previous three months of October, November, and December, 1907, particulars and details of which are fully set out in my Annual Report of that year, a copy of which has been forwarded to the Local Government Board.

During the months of January, February, and March, 1908, 19 cases were notified and five death were attributed by medical practitioners to this disease; a further case of death from the disease notified during this period occurred on April 2nd, and is, therefore, dealt with in this Report.

### **SUMMARY.**

|                                               |    |
|-----------------------------------------------|----|
| Number of cases of Diphtheria notified during |    |
| January, February, and March . . . . .        | 19 |
| Number of deaths from this number . . . . .   | 6  |

## PARTICULARS OF FATAL CASES.

| TWO WERE MALES.            |  | FOUR WERE FEMALES.  |  |
|----------------------------|--|---------------------|--|
| One aged 1 year 11 months. |  | One aged 10 months. |  |
| „ „ 4 years.               |  | „ „ 4 years.        |  |
|                            |  | „ „ 4½ years.       |  |
|                            |  | „ „ 5 years.        |  |

It will be noted that all the fatal cases occurred in young children, in whom the onset is liable to be misleading and the symptoms anomalous, and consequently, treatment by antitoxin is delayed with a correspondingly high fatality-rate.

Again, several of the younger children were diagnosed as suffering from “Croup,” until the persistent *dyspnoea* and *stridulous* breathing suggested the more exact diagnosis.

Every encouragement is given to medical practitioners to use the outfits provided by the Health Committee, free of cost, for taking swabs from suspicious cases; bacteriological examination, and a supply of antitoxin—2,000 and 4,000 Behring units per c.c.—is kept at the Town Hall, Isolation Hospital, and the residence of the Medical Officer of Health, for free use in cases where patients or their immediate relatives are too poor to pay for the same. This can easily be obtained at all hours and, if required, an antitoxin syringe is lent for its administration. Antitoxin is also supplied on the same conditions for immunising purposes if the medical attendant so requires it.

## NOTIFICATION OF DIPHTHERIA.

The following table shows the cases notified, distributed to the several registration districts in which they have occurred, with the population of such districts as recorded at the last census.

| District.               | Population.<br>(census 1901) | No. of cases of<br>Diphtheria notified, |      |            |
|-------------------------|------------------------------|-----------------------------------------|------|------------|
|                         |                              | Jan.                                    | Feb. | Mar. 1908. |
| West Macclesfield.....  | 17,397                       | ...                                     | ...  | 7          |
| East Macclesfield ..... | 12,440                       | ...                                     | ...  | 11         |
| Sutton.....             | 4,887                        | ...                                     | ...  | 1          |
| Totals .....            | 34,624                       | ...                                     | ...  | 19         |

In the East Macclesfield District is situated The Certified Industrial School for boys, and five of the eleven notifications were of inmates of this school.

Eight cases occurred in children attending school. These eight cases were distributed over 7 schools. Four children were under school age, two were in adults, and the remaining five occurred, as before stated, at The Industrial School.

### SCHOOLS.

The Head Teachers of the public elementary schools are required to immediately notify the Medical Officer of Health of all suspicious cases of infectious or contagious diseases occurring amongst the scholars attending school. In conformity with this rule, the Head Teachers of the fifteen public elementary schools, situated within the Borough, notified, during the period under review, 45 scholars suffering from Mumps, 17 enlarged glands of neck, and 13 with sore throats.

12 of these 13 had swabs taken from their throats, and four of these were found to present the *Bacillus Diphtheriae*. These children were excluded from school, the parents or guardians warned of the infectious nature of the throat, and a supply of "Formamint" tablets given with instructions as to their daily use. The children were required to periodically attend at the Health Office, swabs were taken, and no child was considered free from infection and permitted to attend school or to be released from sanitary supervision until two consecutive negative swabs had been obtained.

I am fully convinced that many "Carrier Cases" escaped detection and were responsible for fresh out-breaks of the disease in unexpected quarters. The disease, however, never assumed such dimensions as, in my opinion, warranted a system of general throat-swabbing amongst the school population, which seems the only rational way of detecting the bulk of the "Carrier Cases." The Head Teachers were warned by a circular-letter from the Medical Officer of Health, of the insidious dangers of Diphtheria lurking in the school, drinking-cup, slate and slate-pencil, piece of toffee, &c., &c., and were asked to exercise every care to prevent mouth-to-mouth infection which seems the commoner path to infection.

## PRE-DISPOSING ETIOLOGICAL FACTORS.

During 1906 and part of 1907, we had a fairly severe epidemic of a mild form of Scarlet Fever, and this, I believe, left many of the children who, known or unknown, suffered from the disease with throats peculiarly susceptible to further infection in which *B. Diphtheriae* found a congenial soil.

The actual sanitary conditions of the houses in which the cases occurred was as follows:—

9 cases occurred in houses with clean-water closets.

5     "           "           "           "           "     Privy-middens.

Of these latter, two were wet and offensive, and one was very confined. Three of these have since been converted into water closets with dry-ash places.

In three cases the drains were defective. In one, the upstairs lavatory-pipe was not trapped and was directly connected with the drain: this has since been properly trapped and disconnected. In one case, the infection was imported. The parents, being connected with a theatre company, came to Macclesfield with the patient—a boy, one year and eleven months old—the child then being ill. They said the children in the house where they had lodged the previous fortnight at Mansfield, had "Croup." One case occurred at a Public House, the patient having mixed with the customers prior to being taken ill.

## ISOLATION.

9 cases were removed to the Isolation Hospital belonging to the Corporation. Of these nine, three died,—two within 94 hours of admission, from toxaemice; and the other on the third day. In none of these cases had antitoxin been administered prior to admission to Hospital.

## GENERAL PROCEDURE.

On the receipt of a notification of Diphtheria, the house is visited, and if there appears to be insufficient isolation accommodation, the patient is at once removed to hospital, placed in a special ward, and 4,000 units antitoxin administered. A swab is also taken from the throat. The bedding, &c., is taken up to the steam disinfecter.

In conclusion, I am strongly of opinion that the spread of the disease was determined largely by the undetected "Carrier Cases" who by "mouth-to-mouth" infection, unsuspectingly spread the disease.

Yours faithfully,

J. HEDLEY MARSH,

Medical Officer of Health.

Health Office,  
Town Hall,  
Macclesfield.

## **Inspector of Nuisances Annual Report.**

Mr. Chairman and Gentlemen,

I most respectfully beg to submit my Annual Report on the work done in this Department during the year ending 31st December, 1908.

**NUISANCES.**—There has been 245 complaints received at the Health Office, all of which have been investigated and where necessary, steps taken to remedy the cause of complaint. 332 other nuisances were discovered by the staff, making a total entered on the books of 577. 570 nuisances have been satisfactorily abated and written off. To achieve this 567 preliminary notices or letters were sent, 144 statutory notices served, 6 Magistrates orders obtained, and 2 persons summoned before the Magistrates to cause them to convert their privy middens to water closets with dry ash-pails. 294 privy closets have been converted to water closets, and 84 new water closets built. 20 blocks of privies and ashpits have been repaired; these are mostly in properties where there is a difficulty with the sewers. 142 defective drains have been repaired or re-laid, and 2 slop-pipes disconnected from the sewer. 147 house drains have been tested with the smoke test, and 280 other nuisances have been dealt with, such as dirty or overcrowded houses, neglected manure heaps or swill tubs, animals or poultry so kept as to be a nuisance. &c.

**SMOKE NUISANCE.**—There is not a great amount of black smoke emitted in Macclesfield, although, I feel that I am justified in saying, that, even this might be considerably reduced by greater care in stoking.

**MARINE STORES.**—These being amongst the greatest nuisances we have in town. I have kept them continuously under Statutory notice, so that proceedings could be instituted against them at any time, should they neglect their obligations.

**BAKE-HOUSES.**—As I reported last year, many of the smaller bake-houses are scarcely fit for the business carried on, and they are incapable of any satisfactory alteration. One of the worst has been demolished and a fairly satisfactory one established in its stead, and another one has undergone thorough repair.

**SLAUGHTER-HOUSES.**—I have had very little to find fault to find with the management of the above. My suggestion in last year's report viz.:—To have a larger number of handy uniform size garbage pails so that the scavengers could empty them directly into the garbage cart, is being complied with.

**DISEASED MEAT.**—The carcasses of three cows, one lamb, and a quantity of beef bellies submitted for inspection, were forfeited and destroyed as unfit for human food.

**COMMON LODGING HOUSES.**—The Lodging-houses have been regularly inspected every week, but which has not revealed anything unusual to comment on. There has been several changes of Registered keepers owing to death and other circumstances during the year.

**DAIRIES, COWSHEDS AND MILKSHOPS.**—The usual inspection of these places has been carried out, and a personal endeavour made to convince farmers and persons employed in milking, the advantage and necessity of wiping or lightly rubbing the cows udder and flanks with a large duster or cloth very slightly damped, before milking, and also, that it is only decent that every person should wash their hands before milking.

FOOD AND DRUGS ACTS.—94 samples of a variety of 24 different kinds of articles were submitted for analysis. Three of these were found to have been adulterated. One was summoned and fined 2s. 6d. and costs, another cautioned, the percentage of adulteration being only 2 o/o and the other sample being purchased outside the limits of my jurisdiction. I was unable to take proceedings, 68 of these samples were purchased by private agents.

CONTAGIOUS DISEASES ANIMALS ACTS.—There has been one outbreak, viz :—Swine Fever at the Parkside Asylum Farm, causing a large number of animals to have to be slaughtered off. The restrictions on the movement of swine imposed by the Swine Fever (Regulation of Movement) Order of 1908, and the restrictions on the movement of sheep imposed by the Sheep Dipping (England) Order of 1908, entails a great amount of work and attention.

CANAL BOATS ACTS.—I have made inspections of 58 boats on which I found 10 infringements. Eight have rectified and the other two are being followed up.

SCAVENGING.—The work now being carried out by the Health Committee has resulted in fewer complaints, considerably better cleaning up after the emptying of the remaining wet ashpits, and more frequent emptying of the dry ashbins. A new foreman has been appointed, and with the aid of the experience of the aged foreman whose services are retained, the work if not done cheaper, is certainly better done, and carried out with a minimum of annoyance to the inhabitants. All excrement from Typhoid cases where nursed at home, has been disinfected with per Chloride of Mercury, removed in pails daily and buried.

INFECTIOUS DISEASES.—103 houses have been specially inspected on account of Infectious Diseases, which received in all 367 visits, and 240 supplies of disinfectants. 129 houses including houses where death occurred from Phthisis and Cancer were carefully disinfected, and also one school. 4,626 articles including beds, carpets, clothes, &c., have been disinfected in the steam disinfector. In addition to ordinary fever cases, all cases of Phthisis, Cancer and Erysipelas are visited and instructions given and recommendations in point tendered. 83 cases have been removed to the Isolation Hospital including 24 from the Rural District.

FREE DISTRIBUTION OF DISINFECTANTS.—This has grown of late years until it has become a serious item of expense, and it is to be feared that in many cases disinfectants are applied instead of cleanliness. No fewer than 12,897 supplies have been given away. Also 1,158 supplies of lime for whitewashing the houses of the poor, and 767 whitewash brushes lent for applying same.

FACORY AND WORKSHOPS ACTS.—216 visits have been paid to places where work from factories is taken home to do. 49 of these places were found to be dirty required white-liming; 46 have been done and the other three are being followed up. 94 visits have been paid to Workshops. 6 dirty closets were cleaned on a verbal request and one notice served in a case of defective closets at a factory.

Two persons have been summoned for infringement under the Shop Hours Act.

## SUMMARY.

|                                                                                            |        |
|--------------------------------------------------------------------------------------------|--------|
| Number of Complaints received at Office .....                                              | 245    |
| „ „ Nuisances entered on the Books.....                                                    | 577    |
| „ „ Nuisances removed .....                                                                | 570    |
| „ „ Preliminary Notices and Letters .....                                                  | 567    |
| „ „ Statutory Notices served .....                                                         | 144    |
| „ „ Magistrates' Orders obtained .....                                                     | 6      |
| „ „ Persons Summoned before the Justices<br>for offences under the Public Health Act ..... | 2      |
| „ „ Privies and Ashpits repaired and improved ..                                           | 20     |
| „ „ Privies converted into Water Closets.....                                              | 294    |
| „ „ New Closets built :—                                                                   |        |
| on W.C. system .. .....                                                                    | 84     |
| on Waste Water system.....                                                                 | 0      |
| on Privy system .....                                                                      | 0      |
| „ „ House Drains repaired and cleaned .....                                                | 141    |
| „ „ Slopstone Pipes disconnected from the sewer ..                                         | 2      |
| „ „ House Drains tested with smoke apparatus...                                            | 141    |
| „ „ other Nuisances (not specified above) abated ..                                        | 280    |
| „ „ Visits paid to Common Lodging Houses .....                                             | 428    |
| „ „ Nightly Lodgers accommodated at the Common<br>Lodging Houses during the year.....      | 36,719 |
| „ „ Visits paid to Factories and Workshops .....                                           | 19     |
| „ „ Homes of Outworkers Inspected .....                                                    | 130    |
| „ „ Work-rooms required to be White-washed ....                                            | 40     |
| „ „ visits made to homes of Out-workers ... ..                                             | 130    |
| „ „ „ „ Daries, Cowsheds, & Milkshops .....                                                | 128    |
| „ „ „ „ Registered Slaughter Houses ... ..                                                 | 88     |
| „ „ „ „ Bakehouses .....                                                                   | 96     |
| „ „ „ „ Tripe-dressing places .....                                                        | 26     |
| „ „ „ „ Dirty and over-crowded houses..                                                    | 103    |

The distribution of Lime-wash, Brushes, and Disinfectants to the poor, has been as follows:—

|                |       |
|----------------|-------|
| Limewash ..... | 1,158 |
|----------------|-------|

|                                      |        |
|--------------------------------------|--------|
| Brushes lent for applying same ..... | 767    |
| Disinfectants .....                  | 12,897 |

|                                                                                                                   |       |
|-------------------------------------------------------------------------------------------------------------------|-------|
| Number of Houses specially inspected on account of<br>Infectious Diseases .....                                   | 103   |
| „ „ Visits paid to same .....                                                                                     | 367   |
| „ „ Notices sent to schools and parents, re, the<br>Isolation of children where infectious<br>disease exists..... | 252   |
| „ „ Notices sent to the Librarian (Free Library)                                                                  | 68    |
| „ „ Pails containing Typhoid excrement, removed,<br>disinfected, and buried ...                                   | 0     |
| „ „ Supplied of Disinfectants specially on account<br>of Infectious Disease .....                                 | 240   |
| „ „ Houses fumigated after Infectious Disease ...                                                                 | 105   |
| „ „ „ „ „ „ deaths from Phthisis ..                                                                               | 22    |
| „ „ „ „ „ „ „ „ Cancer.....                                                                                       | 2     |
| „ „ Cases removed to Isolation Hospital (including<br>24 removed from the Macclesfield Rural<br>district) .....   | 83    |
| „ „ Contacts removed to Temporary Shelter .....                                                                   | 0     |
| „ „ Beds .....                                                                                                    | 411   |
| „ „ Pillows .....                                                                                                 | 737   |
| „ „ Blankets and Counterpanes .....                                                                               | 909   |
| „ „ Carpets .....                                                                                                 | 49    |
| „ „ Articles of Clothing .....                                                                                    | 2,520 |
| „ Canal Boats inspected.....                                                                                      | 58    |

Number of Samples taken under the Sale of Food and Drugs  
Act, &c., submitted to the Borough Analyst:—

26 Milk, 10 Butter, 7 Coffee, 7 Lard, 6 Bread,  
5 White Pepper, 4 Arrowroot, 4 Ground Ginger,  
3 Flour, 2 Baking Powder, 2 Scotch Whisky,  
2 Citrate of Magnesia, 2 Carbonate of Soda,  
2 Turpentine, 2 Vinegar, 2 Linseed Oil, 1 Brawn,  
1 Cheese, 1 Best Mild Beer, 1 Camphorated Oil,

1 Ground Cinnamon, 1 Pearl Barley, 1 Ammoniated  
Tincture of Quinine, 1 Mustard. Total 94.

Number of Persons proceeded against for offences under the  
Sale of Food and Drugs Act ..... 1

The out-breaks of contagious diseases amongst animals  
within the Borough have been as follows:—

Swine Fever ..... 1

Number of persons proceeded against for offences under the  
Contagious Diseases, Animals Act ..... 0

Diseased, Unsound, or Unwholesome Food, seized and destroyed  
by Magistrates Order ..... 0

Food submitted for inspection and destroyed:—

3 Carcases of Cows, 1 Carcase of a Lamb, Quantity of  
Beef Bellies.

Number of Licenses granted for the Removal of Swine ... 143

Number of Notices issued for the Detention of Swine..... 5

I remain, Gentlemen,

Your obedient servant,

WILLIAM JENKINS.

## FACTORIES, WORKSHOPS, LAUNDRIES, WORK-PLACES, AND HOMEWORK.

### 1.—INSPECTION.

(Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.)

| Premises.                                                                            | No. of<br>Inspections. | No. of<br>Written<br>Notices.                       | No. of<br>Prosecutions. |
|--------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------|-------------------------|
| Factories (including Factory Laundries) ... ..                                       | —                      | ...                                                 | —                       |
| Workshops, (including Workshop Laundries) ... ..                                     | 94                     | Six verbal requests, re dirty closets, attended to. | ...                     |
| Work-places (other than Out-workers' Premises included in Part 3 of this Report) ... | —                      | ...                                                 | —                       |
| Total ... ..                                                                         | 100                    | 1                                                   | ...                     |

### 2.—DEFECTS FOUND.

| Particulars.                                                 | Number of Defects.<br>Found. | Remedied.                          |
|--------------------------------------------------------------|------------------------------|------------------------------------|
| Nuisances under the Public Health Act :— *                   |                              |                                    |
| Want of cleanliness ... ..                                   | 49                           | 46<br>(Other 3 being followed up.) |
| Offences under the Factory & Workshop Act :                  |                              |                                    |
| Illegal occupation of underground bake-house (s. 101) ... .. | 2                            | —                                  |
|                                                              | 51                           | 46                                 |

\* Including those specified in sections 2, 3, 7, and 8, of the Factory and Workshop Act as remediable under the Public Health Acts.

## 3.—HOME WORK.

## WEARING APPAREL—MAKING &amp;c.

*Out-workers' Lists, Section 107.*

Lists received from Employers.

(Twice in the year.)

|                           |   |
|---------------------------|---|
| Lists ... ..              | 2 |
| Outworkers—Workmen ... .. | 2 |

(Once in the year.)

|                           |    |
|---------------------------|----|
| Lists ... ..              | 3  |
| Outworkers—Workmen .. ... | 33 |

Addresses of Out-workers.

|                                            |               |
|--------------------------------------------|---------------|
| Received from other Councils ... ..        | 1             |
| Forwarded to other Councils ... ..         | 7             |
| Inspections of Out-workers Premises ... .. | 130           |
|                                            | (216 visited) |

*Out-work in unwholesome Premises,  
Section 108.*

|                                                 |    |
|-------------------------------------------------|----|
| Instances—Lime-washed ... ..                    | 49 |
| Notices served ... ..                           | 0  |
| (Work done on the verbal request of Inspector.) |    |

*Out-work in Infected Premises,  
Sections 109, 110.*

|                        |   |
|------------------------|---|
| Instances ... ..       | 1 |
| (Removed to Hospital.) |   |

## 4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year.

|                    |     |     |     |     |     |     |     | Number. |
|--------------------|-----|-----|-----|-----|-----|-----|-----|---------|
| Bread Bakers       | ... | ... | ... | ... | ... | ... | ... | 20      |
| Confectioners      | ..  | ... | ... | ... | ... | ... | ... | 10      |
| Dressmakers        | ... | ... | ... | ... | ... | ... | ... | 20      |
| Milliners          | ... | ... | ... | ... | ... | ... | ... | 17      |
| Tailors            | ... | ... | ... | ... | ... | ... | ... | 9       |
| Silk Weavers       | ... | ... | ... | ... | ... | ... | ... | 7       |
| Clog Makers        | ... | ... | ... | ... | ... | ... | ... | 6       |
| Tinplate Workers   | ... | ... | ... | ... | ... | ... | ... | 6       |
| Cabinet Makers     | ... | ... | ... | ... | ... | ... | ... | 5       |
| Brush Makers       | ... | ... | ... | ... | ... | ... | ... | 3       |
| Boot Makers        | ... | ... | ... | ... | ... | ... | ... | 4       |
| Stone Masons       | ... | ... | ... | ... | ... | ... | ... | 3       |
| Saddlers           | ... | ... | ... | ... | ... | ... | ... | 3       |
| Bottling           | ... | ... | ... | ... | ... | ... | ... | 2       |
| Box Making         | ... | ... | ... | ... | ... | ... | ... | 2       |
| Carriage Building  | ... | ... | ... | ... | ... | ... | ... | 2       |
| Joiners Shops      | ... | ... | ... | ... | ... | ... | ... | 2       |
| Knitting           | ... | ... | ... | ... | ... | ... | ... | 2       |
| Skipmaking         | ... | ... | ... | ... | ... | ... | ... | 2       |
| Wheelwrights Shops | ... | ... | ... | ... | ... | ... | ... | 2       |
| Builders Shops     | ... | ... | ... | ... | ... | ... | ... | 1       |
| Copper Smiths      | ... | ... | ... | ... | ... | ... | ... | 1       |
| Cycle Repairers    | ... | ... | ... | ... | ... | ... | ... | 1       |
| Marine Stores      | ... | ... | ... | ... | ... | ... | ... | 1       |
| Paper Stock        | ..  | ... | ... | ... | ... | ... | ... | 1       |
| Rope Makers        | ... | ... | ... | ... | ... | ... | ... | 1       |
| Card Cutting       | ... | ... | ... | ... | ... | ... | ... | 4       |

TABLE I. Name of District, Macclesfield. For whole district. 103

| Year.                              | Popula-<br>tion esti-<br>mated to<br>Middle of<br>each Year | Births. |       | Deaths under 1<br>Year of age. |                                           | Deaths of all<br>Ages. Total |       | Deaths<br>in Public<br>Institu-<br>tions | Deaths<br>of Non-<br>residents<br>regist' red<br>in district | Deaths<br>of resi-<br>dents<br>regist' red<br>beyond<br>District<br>11 | Deaths of all ages<br>Nett. |       |
|------------------------------------|-------------------------------------------------------------|---------|-------|--------------------------------|-------------------------------------------|------------------------------|-------|------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------|-------|
|                                    |                                                             | Number  | Rate* | Number                         | Rate per<br>1000<br>Births<br>regist' red | Number                       | Rate* |                                          |                                                              |                                                                        | Number                      | Rate* |
|                                    |                                                             |         |       |                                |                                           |                              |       |                                          |                                                              |                                                                        |                             |       |
| 1                                  | 2                                                           | 3       | 4     | 5                              | 6                                         | 7                            | 8     | 9                                        | 10                                                           | 11                                                                     | 12                          | 13    |
| 1891                               | 36009                                                       | 1009    | 28.1  | 130                            | 130                                       | 816                          | 22.6  | 135                                      | 67                                                           |                                                                        | 749                         | 20.8  |
| 1892                               | 36009                                                       | 989     | 27.4  | 201                            | 203                                       | 986                          | 27.3  | 156                                      | 81                                                           |                                                                        | 905                         | 25.1  |
| 1893                               | 36009                                                       | 931     | 25.9  | 177                            | 190                                       | 845                          | 23.4  | 191                                      | 101                                                          |                                                                        | 744                         | 20.6  |
| 1894                               | 36009                                                       | 1017    | 28.2  | 136                            | 134                                       | 732                          | 20.3  | 160                                      | 89                                                           |                                                                        | 643                         | 17.6  |
| 1895                               | 36009                                                       | 917     | 25.4  | 189                            | 217                                       | 908                          | 25.2  | 182                                      | 95                                                           |                                                                        | 813                         | 22.5  |
| 1896                               | 36009                                                       | 964     | 26.8  | 150                            | 56                                        | 732                          | 20.3  | 150                                      | 67                                                           |                                                                        | 665                         | 19.4  |
| 1897                               | 36009                                                       | 977     | 27.1  | 171                            | 157                                       | 825                          | 22.9  | 179                                      | 93                                                           | 2                                                                      | 734                         | 20.3  |
| 1898                               | 36009                                                       | 953     | 26.1  | 166                            | 174                                       | 797                          | 21.0  | 151                                      | 88                                                           | 1                                                                      | 670                         | 18.6  |
| 1899                               | 36009                                                       | 886     | 24.6  | 174                            | 196                                       | 810                          | 22.5  | 188                                      | 73                                                           |                                                                        | 717                         | 20.4  |
| 1900                               | 36009                                                       | 853     | 23.6  | 163                            | 190                                       | 772                          | 21.4  | 160                                      | 66                                                           | 3                                                                      | 709                         | 19.7  |
| Averages<br>for years<br>1900-1901 | 36009                                                       |         | 26.6  |                                | 174                                       |                              | 22.9  | 163                                      | 82                                                           |                                                                        |                             |       |
| 1901                               | 34635                                                       | 771     | 22.2  | 139                            | 180                                       | 720                          | 20.8  | 176                                      | 77                                                           | 3                                                                      | 643                         | 18.5  |
| 1902                               | 34635                                                       | 842     | 21.4  | 76                             | 102                                       | 597                          | 17.2  | 175                                      | 72                                                           | 2                                                                      | 525                         | 15.1  |
| 1903                               | 34625                                                       | 870     | 25.1  | 117                            | 134                                       | 675                          | 19.4  | 204                                      | 74                                                           | 2                                                                      | 601                         | 17.3  |
| 1904                               | 34624                                                       | 784     | 22.6  | 140                            | 178                                       | 798                          | 23.0  | 222                                      | 91                                                           |                                                                        | 707                         | 20.0  |
| 1905                               | 34624                                                       | 751     | 21.6  | 112                            | 149                                       | 716                          | 20.7  | 227                                      | 88                                                           | 3                                                                      | 628                         | 18.1  |
| 1906                               | 34624                                                       | 762     | 22.0  | 93                             | 122                                       | 664                          | 19.1  | 204                                      | 63                                                           | 0                                                                      | 591                         | 17.0  |
| 1907                               | 34624                                                       | 704     | 20.3  | 85                             | 120                                       | 680                          | 19.6  | 210                                      | 100                                                          | 3                                                                      | 580                         | 16.8  |
| 1908                               | 34624                                                       | 737     | 21.2  | 94                             | 127                                       | 675                          | 19.4  | 183                                      | 99                                                           | 0                                                                      | 576                         | 16.6  |

NOTE. The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" to be taken into account for the purposes of these Tables, are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses, and lunatic asylums. A list of the Institutions in respect of the deaths in which corrections have been made, should be given on the back of this Table.

|                                                                       |             |                                     |        |                         |
|-----------------------------------------------------------------------|-------------|-------------------------------------|--------|-------------------------|
| Area of District in acres<br>(exclusive of area<br>covered by water). | .....3,214. | Total population at all ages.....   | 34,624 | } At Census<br>of 1901. |
|                                                                       |             | Number of inhabited houses .....    | 8,354  |                         |
|                                                                       |             | Average number of persons per house | 4      |                         |

TABLE II. Name of District, Macclesfield.

105

| Names of Localities.                 | West Macclesfield.                                              |                            |                           |                           | East Macclesfield including Hurdfield since 1896.               |                            |                           |                           | Hurdfield.                                                      |                            |                           |                           | Sutton.                                                         |                            |                           |                           |
|--------------------------------------|-----------------------------------------------------------------|----------------------------|---------------------------|---------------------------|-----------------------------------------------------------------|----------------------------|---------------------------|---------------------------|-----------------------------------------------------------------|----------------------------|---------------------------|---------------------------|-----------------------------------------------------------------|----------------------------|---------------------------|---------------------------|
|                                      | Popula-<br>tion esti-<br>mated to<br>middle<br>of each<br>year. | Births<br>regis-<br>tered. | Deaths<br>at all<br>ages. | Deaths under<br>one year. | Popula-<br>tion esti-<br>mated to<br>middle<br>of each<br>year. | Births<br>regis-<br>tered. | Deaths<br>at all<br>ages. | Deaths under<br>one year. | Popula-<br>tion esti-<br>mated to<br>middle<br>of each<br>year. | Births<br>regis-<br>tered. | Deaths<br>at all<br>ages. | Deaths under<br>one year. | Popula-<br>tion esti-<br>mated to<br>middle<br>of each<br>year. | Births<br>regis-<br>tered. | Deaths<br>at all<br>ages. | Deaths under<br>one year. |
| Year.                                | a.                                                              | b.                         | c.                        | d.                        | a.                                                              | b.                         | c.                        | d.                        | a.                                                              | b.                         | c.                        | d.                        | a.                                                              | b.                         | c.                        | d.                        |
| 1891                                 | 17854                                                           | 447                        | 398                       | 61                        | 9813                                                            | 293                        | 204                       | 49                        | 3282                                                            | 111                        | 44                        | 3                         | 5060                                                            | 158                        | 103                       | 17                        |
| 1892                                 | 17854                                                           | 437                        | 472                       | 84                        | 9813                                                            | 298                        | 213                       | 64                        | 3282                                                            | 110                        | 74                        | 19                        | 5060                                                            | 144                        | 146                       | 34                        |
| 1893                                 | 17854                                                           | 427                        | 415                       | 74                        | 9813                                                            | 257                        | 185                       | 68                        | 3282                                                            | 111                        | 57                        | 17                        | 5060                                                            | 136                        | 87                        | 18                        |
| 1894                                 | 17854                                                           | 471                        | 332                       | 49                        | 9813                                                            | 284                        | 160                       | 49                        | 3282                                                            | 90                         | 53                        | 15                        | 5060                                                            | 166                        | 98                        | 20                        |
| 1895                                 | 17854                                                           | 433                        | 421                       | 98                        | 9813                                                            | 276                        | 223                       | 17                        | 3282                                                            | 74                         | 67                        | 15                        | 5060                                                            | 154                        | 112                       | 29                        |
| 1896                                 | 17854                                                           | 441                        | 352                       | 61                        | 13095                                                           | 375                        | 242                       | 67                        |                                                                 |                            |                           |                           | 5551                                                            | 149                        | 71                        | 22                        |
| 1897                                 | 17854                                                           | 472                        | 382                       | 61                        | 13095                                                           | 378                        | 261                       | 71                        |                                                                 |                            |                           |                           | 5051                                                            | 127                        | 91                        | 27                        |
| 1898                                 | 17854                                                           | 422                        | 369                       | 85                        | 13095                                                           | 383                        | 225                       | 61                        |                                                                 |                            |                           |                           | 5051                                                            | 148                        | 76                        | 20                        |
| 1899                                 | 17854                                                           | 417                        | 422                       | 90                        | 13095                                                           | 341                        | 213                       | 57                        |                                                                 |                            |                           |                           | 5051                                                            | 128                        | 102                       | 23                        |
| 1900                                 | 17854                                                           | 429                        | 398                       | 72                        | 13095                                                           | 305                        | 224                       | 68                        |                                                                 |                            |                           |                           | 5051                                                            | 119                        | 99                        | 23                        |
| Averages<br>of years<br>1891 to 1902 | 17854                                                           | 442                        | 387                       | 75                        |                                                                 | 495                        | 251                       | 68                        |                                                                 |                            |                           |                           |                                                                 | 146                        |                           |                           |
| 1901                                 | 17297                                                           | 365                        | 326                       | 68                        | 12450                                                           | 283                        | 214                       | 44                        |                                                                 |                            |                           |                           | 4888                                                            | 123                        | 103                       | 27                        |
| 1902                                 | 17297                                                           | 350                        | 270                       | 39                        | 12450                                                           | 300                        | 196                       | 31                        |                                                                 |                            |                           |                           | 4888                                                            | 92                         | 59                        | 6                         |
| 1903                                 | 17297                                                           | 399                        | 307                       | 44                        | 12440                                                           | 357                        | 240                       | 61                        |                                                                 |                            |                           |                           | 4887                                                            | 144                        | 54                        | 12                        |
| 1904                                 | 17297                                                           | 380                        | 345                       | 65                        | 12440                                                           | 284                        | 264                       | 54                        |                                                                 |                            |                           |                           | 4887                                                            | 120                        | 98                        | 20                        |
| 1905                                 | 17297                                                           | 350                        | 304                       | 59                        | 12440                                                           | 286                        | 225                       | 38                        |                                                                 |                            |                           |                           | 4887                                                            | 116                        | 99                        | 16                        |
| 1906                                 | 17297                                                           | 359                        | 271                       | 29                        | 12440                                                           | 279                        | 255                       | 50                        |                                                                 |                            |                           |                           | 4887                                                            | 124                        | 65                        | 15                        |
| 1907                                 | 17297                                                           | 315                        | 280                       | 30                        | 12440                                                           | 298                        | 219                       | 50                        |                                                                 |                            |                           |                           | 4887                                                            | 91                         | 81                        | 5                         |
| 1908                                 | 17297                                                           | 344                        | 293                       | 39                        | 12440                                                           | 232                        | 210                       | 45                        |                                                                 |                            |                           |                           | 4887                                                            | 111                        | 73                        | 10                        |

- NOTES—(a) The separate localities adopted for this table should be areas of which the populations are obtainable from the census returns, such as wards, parishes, or groups of parishes, or registration sub-districts. Block 1 may, if desired, be used for the whole district; and blocks 2, 3, etc., or the several localities. In small districts without recognised divisions of known population, this Table need not be filled up.
- (b) Deaths of residents occurring in public institutions beyond the district are to be included in sub-column C of this table, and those of non-residents registered in public institutions in the district excluded. (See note on Table 1 as to meaning of terms “resident” and “non-resident.”)
- (c) Deaths of residents occurring in public institutions, whether within or without the district, are to be allotted to the respective localities according to the addresses of the deceased.
- (d) Care should be taken that the gross totals of the several columns in this table respectively equal the corresponding totals for the whole districts in Tables I. and IV., thus, the totals of sub-column A, B, and C should agree with the figures for the year in the columns 2, 3, and 12, respectively, of Table I.; the gross total of the sub-columns C should agree with the total of column 2 in Table IV., and the gross total of sub-columns D with the figures in column 5 of Table I., and the total of column 3 in Table IV.

TABLE III.

Cases of Infectious Diseases notified during the year 1908. District, Macclesfield.

| Notifiable Disease.                     | Cases notified in whole District. |                |        |         |          |          | Total cases notified in each locality. |        |          | No. of cases removed to Hospital from each locality. |        |          | Total cases removed to Hospital. |
|-----------------------------------------|-----------------------------------|----------------|--------|---------|----------|----------|----------------------------------------|--------|----------|------------------------------------------------------|--------|----------|----------------------------------|
|                                         | At all Ages.                      | At Ages—Years. |        |         |          |          | 1 West                                 | 2 East | 3 Sutton | 1 West W.&H.                                         | 2 East | 2 Sutton |                                  |
|                                         |                                   | Under 1        | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 65 |                                        |        |          |                                                      |        |          |                                  |
| Diphtheria (including Membranous croup) | 39                                | 2              | 13     | 13      | 8        | 0        | 18                                     | 18     | 3        | 6                                                    | 8      | 1        | 15                               |
| Erysipelas .....                        | 11                                | 0              | 0      | 0       | 2        | 3        | 5                                      | 5      | 1        | 0                                                    | 9      | 0        | 0                                |
| Scarlet Fever ...                       | 55                                | 0              | 15     | 32      | 6        | 0        | 22                                     | 15     | 18       | 14                                                   | 0      | 17       | 40                               |
| Enteric Fever...                        | 9                                 | 0              | 1      | 0       | 4        | 0        | 3                                      | 3      | 3        | 0                                                    | 1      | 3        | 4                                |
| Totals .....                            | 114                               | 2              | 29     | 45      | 20       | 3        | 48                                     | 41     | 25       | 20                                                   | 18     | 21       | 59                               |

NOTES.—The localities adopted for this table should be the same as those in Tables II and IV.

State in space below the name of the isolation hospital, if any, to which residents in the district, suffering from infectious disease, are usually sent. Mark (H) the locality in which it is situated, or if not within the district, state where it is situated, and in what district. The name of the Authority by whom the hospital is provided should also be given. Mark (W) the locality in which a workhouse is situated.

\* These age columns for notifications should be filled up in all cases where the Medical Officer of Health, by inquiry or otherwise, has obtained the necessary information.

Isolation Hospital for Scarlet Fever, Diphtheria, &c., &c.      Separate building in West  
Macclesfield for Smallpox.



*Wasting Diseases.*

|                                   |      |     |    |     |     |   |     |    |     |   |     |   |     |   |     |   |     |   |     |       |
|-----------------------------------|------|-----|----|-----|-----|---|-----|----|-----|---|-----|---|-----|---|-----|---|-----|---|-----|-------|
| Premature Birth .....             | 11.. | 5   | .. | 1   | ... | 2 | ... | 19 | ... |   |     |   |     |   |     |   |     |   |     | ...20 |
| Congenital Defects....            | 1    | ... |    | ... |     | 1 | ... |    |     |   |     |   |     |   |     |   |     |   |     | ...1  |
| Atrophy, debility, marasmus l ... | 1    | ... | 1  | ... | ... | 3 | ... |    | ... | 1 | ... | 2 | ... | 2 | ... | 1 | ... | 1 | ... | ...10 |

*Tuberculous Diseases.*

[illegible]

### Other Causes.

|                    |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Syphilis .....     | 1   | 1   | ... | 3   | 5   | 1   | ... | ... | ... | ... | ... | ... | ... | 6  |
| Convulsions .....  | 4   | 1   | ... | 4   | 9   | 1   | 1   | ... | ... | 1   | ... | 1   | ... | 15 |
| Bronchitis .....   | ... | ... | ... | 2   | 2   | ... | 1   | ... | 1   | ... | ... | 3   | ... | 10 |
| Pneumonia .....    | ... | ... | ... | ... | ... | ... | 2   | ... | 1   | ... | 2   | ... | ... | 5  |
| Other Causes ..... | 1   | 2   | 1   | ... | 4   | ... | ... | ... | 1   | ... | ... | 1   | ... | 6  |

|        |         |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------|---------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Totals | .....19 | ...10 | .. 7 | ... 7 | ...43 | ... 3 | ... 7 | ... 6 | ... 3 | ... 7 | ... 4 | ... 2 | ... 9 | ... 5 | ... 2 | ... 3 | ...94 |
|--------|---------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Population (Estimated to middle of 1908).....34,624.



